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Extract of Malt with Cod-Liver Oil.

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A perfect amalgamation of Norwegian Cod-Liver Oil with active Malt Extract.

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London.

Index and Buyers' Guide, pp. 5, 6, 7, 8, and 9

WE THANK OUR FRIENDS AND THEY THANK US!

Extracts from Letters received from Prizewinners in

WRIGHT'S COAL TAR SOAP

Window Display Competition, 1913.

Neve & Co., HASTINGS.

"Accept best thanks for the prize allotted to us. We are still anxious to get hold of the first, and this year intend making a special effort. We shall just do a tip-top window, and will send our order as soon as we are clear and ready. Your prizes are so handsome, it's worth a real effort."

H. L. Warne, VENTNOR.

"I am in receipt of your letter and postal order for 20s., for which I tender my best thanks. I was surprised to learn that I had been allotted one of the prizes offered, this being the first time I have entered for any such competition. Needless to say, I intend doing better this year. Apart from the competition, your 'Sapo Carbonis' is worth a place in every pharmacist's shop. It draws, it pays, and is always a pleasure to sell."

Pratt's Drug Stores, CROYDON.

"My £1 prize safely to hand this evening. Please accept my hearty thanks for same. I would like to point out that I shall do my utmost to increase the sales of your soap to our mutual advantage. Again thanking you most sincerely, with compliments, I remain———"

W. H. Harrison, HINDLEY.

"It is with the deepest sense of satisfaction and heartiest thanks I wish to acknowledge receipt of cheque value £25. It was beyond my real expectations to become principal prizewinner in the window-dressing competition. However, I am highly delighted, not only to know I have given you the best display, but also to recommend and promote the sales of your products, the Wright's Coal Tar Specialities, which are a valuable asset to any pharmacy. Again thanking you."

W. E. Coultas, SHEFFIELD.

"I wish to acknowledge with many thanks your cheque value £15, which is indeed a very handsome prize, as a result of my efforts in your window-dressing competition of 1913. I suppose it is only natural that I feel very proud of the distinction, especially as my window does not lend itself to artistic displays; yet I am pleased to say the show of your Soap created an impression on the public, and also an increased demand for the same, which has kept up very satisfactorily. Your congratulations are greatly esteemed, and I thank you."

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Organo-therapy products are the most reliable in the realm of medicine. They are highest in efficiency, of standard strength always, and packed under the absolute guarantee of the Armour Laboratory.

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Extract of Red Bone Marrow.

The greatest of all body-building and blood-enriching substances, elegantly presented for immediate consumption, or to combine with malt and phosphates*

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The only reliable and thoroughly satisfactory Remedy for Diabetes-Mellitus which has a record of complete cures.

REPORT FROM A PROMINENT PHYSICIAN.

I am satisfied your preparation has cured several of my patients. Expurgo Anti-Diabetes is particularly effective in combating and neutralising the diabetic poisons and in completely eliminating the sugar excretion characteristic of this disease.

The Medical Faculty is also recommended to try Expurgo Lapis—a particularly valuable preparation in the treatment of Gall Stones, Kidney and Bladder Stones and Gravel.

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WRITE FOR FEBRUARY 1914 PRICE LIST.

Sole Manufacturers and Distributors :—

Thermos Limited, 8 Long Lane, Aldersgate Street, London, E.C.

Zam-Buk Soap is Now Booming

TIT-BITS. FEBRUARY 28/14

MEDICINAL AND TOILET Zam-Buk Soap FOR BATH AND NURSERY

A REAL MEDICINAL SOAP

New and Valuable Zam-Buk Aid Free!

WHEN your skin is liable to soreness; when you are recovering from an attack of eczema, pimples, or rashes; or if you have a skin that roughens or becomes unpleasant with the slightest weather change, you need something more than an ordinary toilet soap to wash with.

Zam-Buk *Medicinal* Soap, which is the product of years of experience in the treatment of skin disorders, is just the special soap needed when clearness and health have to be imparted to the skin.

Ordinary soaps, with their searching alkalis, dry up the tissues and increase skin soreness. Zam-Buk *Medicinal* Soap, on the other hand, is *entirely devoid of "free alkali"* or other irritant. Zam-Buk *Medicinal* Soap has a soothing and helpful action, and has the effect of making the oil-glands in the skin secrete more oil instead of drying those oil-glands up. Most important of all, Zam-Buk *Medicinal* Soap *makes the skin disease-proof*, and gives most valuable help to Zam-Buk balm in the treatment of eczema, ringworm, pimples, blotches, etc.

FREE! Cut out this Coupon and send it, together with a 1d. stamp, for a dainty trial tablet of Zam-Buk *Medicinal* Soap to The Zam-Buk Co., Leeds.

Zam-Buk MEDICINAL SOAP

"Daily Mail," FRIDAY, FEBRUARY 13, 1914.

Zam-Buk MEDICINAL SOAP

IF you wish to preserve your baby's skin in all its delicate softness, use only Zam-Buk *Medicinal* Soap, which is specially designed for its soothing and emollient effect on sensitive tissues. Zam-Buk *Medicinal* Soap contains no free or uncombined alkali, which is the danger of many ordinary toilet soaps.

Where there is any tendency to soreness, chafing, ... Zam-Buk *Medicinal* Soap cools the skin and ... natural clearness.

FREE. Cut out and send th... with a 1d. sta... and you... tri...

THE DAILY TELEGRAPH, MARCH 13, 1914.

Skin Sufferers Need

to be careful to avoid the irritation that comes from washing the affected parts with ordinary toilet soap. Ordinary soap usually contains a large amount of "free" or uncombined alkali, which eats into the skin and so makes matters worse.

In cases of Eczema, Ulcers, Wounds, and all unpleasant sores, use only Zam-Buk *Medicinal* Soap, which is specially prepared for this purpose, and which is, moreover, devoid of all free alkali whatever. Zam-Buk *Medicinal* Soap keeps the skin cool and sweet and aids the cure. Nurses praise its splendid virtues. Keep to

ZAM-BUK MEDICINAL Soap

TELEGRAPH. MARCH 20, 1914.

"MORE THAN A TOILET SOAP."

ZAM-BUK MEDICINAL SOAP

KEEPS SKIN DISEASE AW...

A REAL MEDICINAL SOAP

New and Valuable Zam-Buk Aid.

WHEN your skin is liable to soreness; when you are recovering from an attack of eczema, pimples or rashes; or if you have a skin that roughens or becomes unpleasant with the slightest change in the weather, you need something more than an ordinary toilet soap.

Zam-Buk *Medicinal* Soap, which is the product of years of experience in the treatment of skin disorders, is just that special soap needed when the skin is being nursed back to health. It affords the readiest means of securing a clear and healthy skin and warding off unpleasant or disfiguring disease.

Where Ordinary Soaps Fail.

Ordinary soaps, with their searching alkalis, have the effect of drying up the tissues and accentuating the soreness or unpleasant feeling. Zam-Buk *Medicinal* Soap, on the other hand, is a perfect cleanser entirely devoid of "free alkali" or other irritant. Zam-Buk *Medicinal* Soap has a soothing, healing and medicinal action and has the effect of making the oil glands in the skin secrete more oil instead of drying these oil glands up.

For the housewife whose hands are sore with sewing and daily work, Zam-Buk *Medicinal* Soap is healing; and for baby it is indispensable for soothing chafed and tender parts. To the daughter Zam-Buk *Medicinal* Soap is always welcome, because it freshens the complexion with a "roseleaf bloom," and makes the hands white and dainty. For the toiler it makes the bath most refreshing after a heavy mental or physical strain.

Most important of all, Zam-Buk *Medicinal* Soap makes the skin disease-proof, and gives the most valuable help to Zam-Buk Balm in the treatment of eczema, ringworm, pimples, blotches and other skin troubles.

Zam-Buk Soap MEDICINAL & TOILET.

FOR SKIN & SCALP.

Zam-Buk Medicinal Soap is obtainable of all chemists, or post free direct from the Zam-Buk Co., Carlton Hill, Leeds. Price 1/- per large tablet, or 2/9 for dainty box of 3 large tablets. Get a ... day and see what a big difference ... make to the appearance ...

Medicinal Soap Tablets FREE.

The proprietors of Zam-Buk *Medicinal* Soap have just completed special arrangements for supplying trial tablets of their famous *Medicinal* Soap free. Secure your trial tablet by sending this coupon and 1d. stamp to The Zam-Buk Co.'s Laboratories, Leeds.

Methodist Recorder, 19/2/14.

"Daily Mirror," FRIDAY, FEBRUARY 13, 1914.

A New Aid for the Skin.

Zam-Buk Soap MEDICINAL & TOILET.

Of all Chemists

For People with delicate and sensitive skins, or who are subject to Eczema and similar complaints, Zam-Buk *Medicinal* Soap should be ... preference to ordinary toilet soaps.

FREE.—Cut out and send this paragraph, together with 1d. stamp to The Zam-Buk Co., Leeds, for a dainty trial tablet of Zam-Buk Medicinal Soap.

THE DAILY TELEGRAPH, FEBRUARY 17, 1914.

Zam-Buk's New Ally

ZAM-BUK **Medicinal** SOAP provides the readiest means of securing a Clear and Healthy Skin and warding off Skin Disease. Being entirely devoid of the "free" or uncombined alkali which spoils so many ordinary toilet soaps, Zam-Buk **MEDICINAL** Soap exercises a soothing and medicinal value, and gives valuable help to the famous Zam-Buk Balm in the treatment of Eczema and kindred diseases.

FREE. Cut out and send this paragraph ("The Daily Telegraph" 17/2/14) with a 1d. stamp to the Zam-Buk Laboratories, Leeds, for a dainty Trial Tablet of Zam-Buk **Medicinal** Soap.

ZAM-BUK MEDICINAL SOAP

TELEGRAPH, MARCH 4, 1914.

ZAM-BUK MEDICINAL SOAP

Clears

BEING a **real** Medicinal Soap—which does more than ordinary toilet soap—Zam-Buk Soap is an invaluable and essential aid in the treatment of Eczema and all Itching and Inflammatory skin diseases. Zam-Buk **Medicinal** Soap ... the same excellent principle as the ... balm, and helps to soothe ... and Children ... hing and ...

Sweetens the Scalp.

...LING TABLETS.

"Daily Mirror" THURSDAY, FEBRUA...

MEDICINAL Zam-Buk Soap FOR BATH AND NURSERY

MEDICINAL AND TOILET Zam-Buk Soap FOR BATH AND NURSERY

Zam-Buk MEDICINAL SOAP

ZAM-BUK *Medicinal* Soap provides the readiest means of securing a clear and healthy skin and warding off skin disease. Being entirely devoid of the "free" or uncombined alkali, which spoils so many ordinary toilet soaps, Zam-Buk *Medicinal* Soap exercises a soothing and medicinal value, and gives valuable help to the famous Zam-Buk Balm in the treatment of eczema and kindred skin diseases.

FREE TRIAL TABLETS. The proprietors of Zam-Buk have just completed special arrangements for supplying to the public trial tablets of their famous *Medicinal* Soap free of charge. Secure your trial tablet by sending this paragraph from "The Daily Mirror," 19/2/14, and 1d. stamp to The Zam-Buk Co.'s Laboratories, Leeds.

LONDON OPINION. February 28

A REAL MEDICINAL SOAP.

WHEN your skin is liable to soreness, when you are recovering from an attack of eczema, pimples or rashes; or if you have a skin that roughens or becomes unpleasant with the slightest weather change, you need something more than an ordinary toilet soap.

Zam-Buk *Medicinal* Soap is just the special soap needed when the skin is being nursed back to health. It affords the readiest means of securing a clear and healthy skin and warding off disease.

Ordinary soaps, with their searching alkalis, dry up the tissues and accentuate the skin soreness. Zam-Buk *Medicinal* Soap is entirely devoid of "free alkali" or other irritant. It has a soothing, healing and medicinal action, and makes the skin disease proof.

FREE TABLETS. Cut out and send this paragraph, together with 1d. stamp, to the Zam-Buk Co., Leeds, for a dainty trial tablet of Zam-Buk *Medicinal* Soap.

Zam-Buk Soap MEDICINAL & TOILET.

TIT-BITS. MARCH

For BABY'S BATH

Zam-Buk Soap is Indispensable

If you wish to preserve your Baby's skin in all its delicate softness, use only Zam-Buk *Medicinal* Soap, which is specially designed for its soothing and emollient effect on sensitive tissues. Zam-Buk *Medicinal* Soap contains no "free" or uncombined alkali, which is the danger of many ordinary toilet soaps.

Where there is any tendency to soreness, chafing, or irritation, Zam-Buk *Medicinal* Soap cools the skin and restores its natural clearness. It is, in fact, an invaluable barrier to disease, being based on the same excellent principles as that great herbal-healing balm, Zam-Buk.

FREE! Cut out and send this paragraph (*Tit-Bits*, 7/3/14), with a 1d. stamp, to the Zam-Buk Laboratories, Leeds, and you will receive free by return a very dainty trial tablet of Zam-Buk Medicinal Soap.

Zam-Buk MEDICINAL SOAP

SOME EXCELLENT ADVTS. APPEARING IN ALL LEADING PAPERS.

Order from your Wholesaler, or direct from

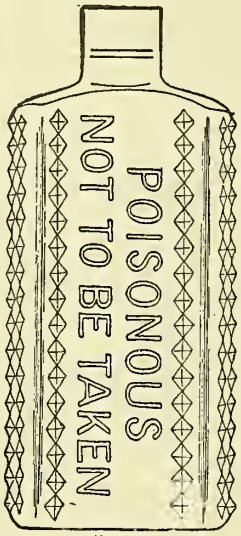
C. E. FULFORD, LTD.

17 South Frederick St., DUBLIN. Carlton Hill, LEEDS.

THE

"POISONOUS" POISON BOTTLE

MADE IN ENGLAND.



Front.

The CHEAPEST POISON BOTTLE IN THE MARKET.

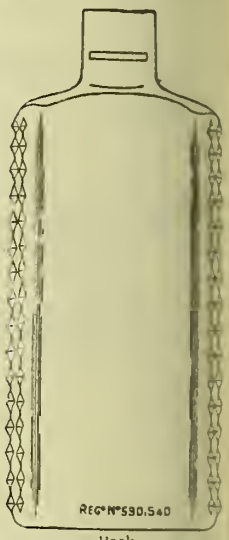
Owing to the numerous requests from the trade for a **CHEAP** Bottle to comply with the new Privy Council regulations made under the "Poisons and Pharmacy Act, 1908," the Inventors of the "Practical" Poison Bottle have designed the **"POISONOUS" POISON BOTTLE, which complies with all the requirements of the new Act.**

This Bottle is made with a ridge in the neck, which enables it to be used for either a rubber Stopper or a Cork, and is made in a **rich blue colour, also in pale green for Ammonia.**

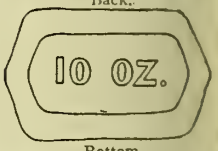
Compare the following Prices with those of other Poison Bottles, and you will find them the lowest that can be obtained:—

PRICES PER GROSS.

1-oz.	2-oz.	3-oz.	4-oz.	6-oz.	8-oz.	10-oz.	12-oz.	16-oz.	20-oz.	¼-oz.
5/5	6/2	7/3	8/4	10/9	12/4	16/2	17/9	22/4	25/3	29/10



Back.



Bottom.

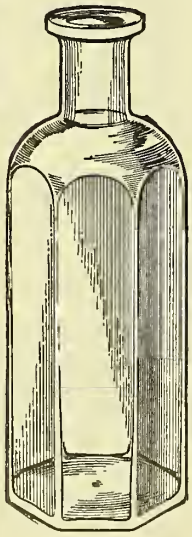
The "POISONOUS" POISON BOTTLE can be obtained from Messrs. Maw, Son & Sons; Evans Sons Lescher and Webb (London and Liverpool); Sangers; May, Roberts and Co., Ltd., or any other of the leading Wholesale Houses.

THE

"IDEAL" BOTTLE

THE BEST FOR

SPECIALITIES AND PREPARATIONS.



The several flat sides have the effect of brilliantly reflecting the contents, thus greatly increasing the natural brightness of the preparation. This is evident when seen in a good light, as in a shop window. A good, attractive bottle, well labelled and finished, frequently sells a preparation.

PRICES PER GROSS.

	½-oz.	1-oz.	1½-oz.	2-oz.	3-oz.	4-oz.	6-oz.	8-oz.	10-oz.	12-oz.	16-oz.	20-oz.
W.G. "Ideals"	4/10	5/5	6/2	7/-	7/10	9/5	11/7	14/-	16/3	18/3	23/8	29/-
Amber and Actinic "Ideals"...	5/8	6/2	7/-	7/10	8/7	10/3	13/2	15/1	18 3	19/11	25/10	31/2
W.G. "Ideals" Stoppered ...	19/11	20/5	21/6	22/-	23/5	25/10	30 1	33/10	36/7	39/9	47/4	51/7
Amber and Actinic "Ideals" Stoppered	20/5	21/6	22/4	23/1	24/2	27/5	31/9	35/6	39/3	41/11	50 6	55/11

Compare these quotations with those of other bottles, especially the stoppered ones.

TEST THE "IDEAL" BOTTLE BY PLACING THE SAME LIQUID IN AN "IDEAL" AND AN ORDINARY ROUND BOTTLE OF THE SAME SIZE, AND SEE THE DIFFERENCE IN APPEARANCE.

The "Ideal" Bottle can be obtained from Messrs. MAW, SON & SONS, EVANS SONS LESCHER & WEBB, Ltd., SANGERS, MAY, ROBERTS & CO., Ltd., J. F. MACFARLAN & Co. (Edinburgh), and other leading Wholesale Houses.

MADE IN ENGLAND.

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Lueders, George, & Co.
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Ransom, W., & Son, Ltd.
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Stevenson & Howell, Ltd.
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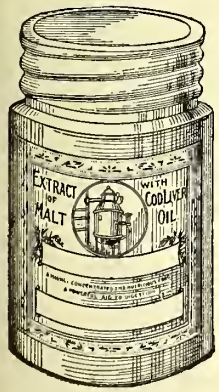

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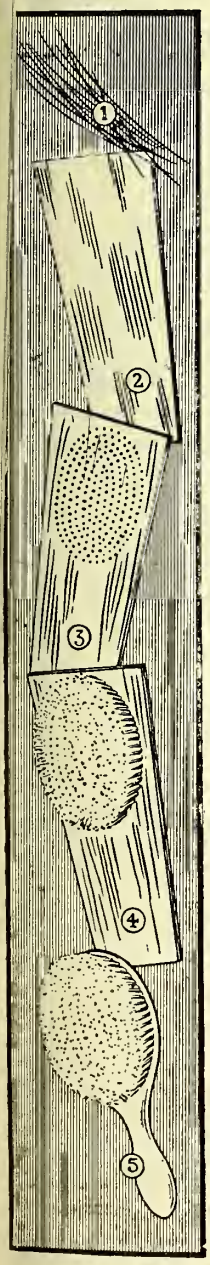
Maw's Page.

No. 124. FEB. 28, 1914.



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S13/C	13	Celluloid, Grained Ivory, Hollow Back, High Cut, White Bristle	156/-
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140E/C	8	Ebony, Solid, Skittle, White, High Cut ...	27/-
21E/C	10	Ebony, Solid, Broad Oval, Ball Cut, White, High Cut	40/-
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The above is a small selection from OVER 400 VARIETIES listed in our Catalogue, including Ebony, Ivory, and Military patterns. See pp. 103 to 122.

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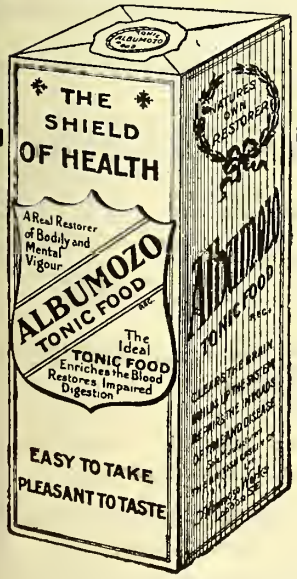

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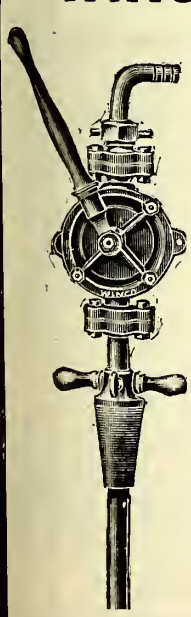

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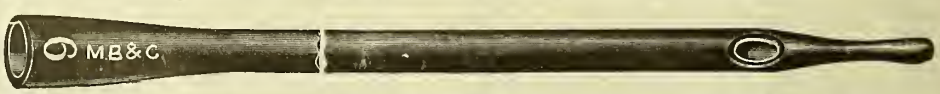

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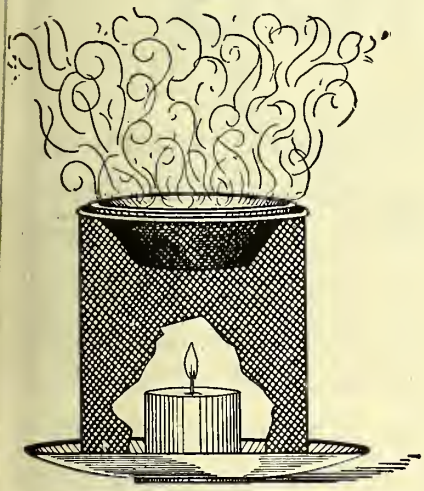

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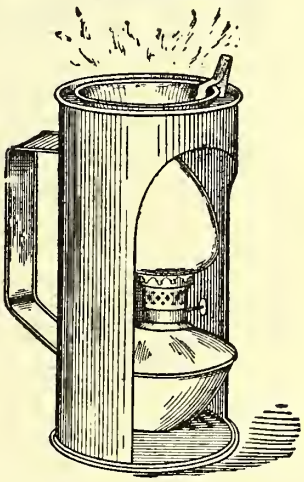

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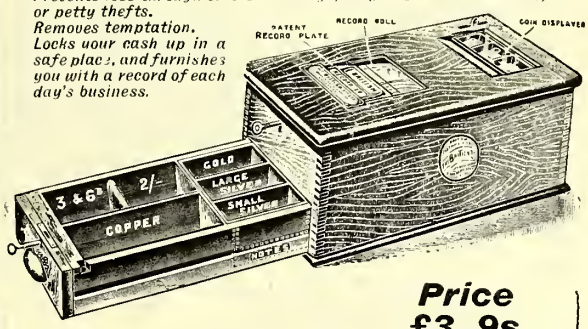

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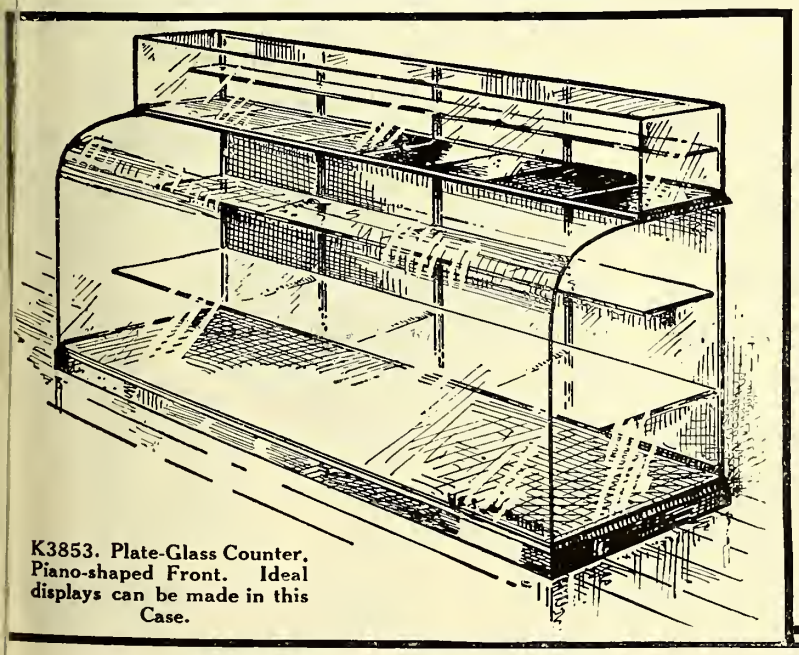


K3853. Plate-Glass Counter, Piano-shaped Front. Ideal displays can be made in this Case.

We manufacture more Patented and Registered Design SHOP-FITTINGS than any other firm in the World!

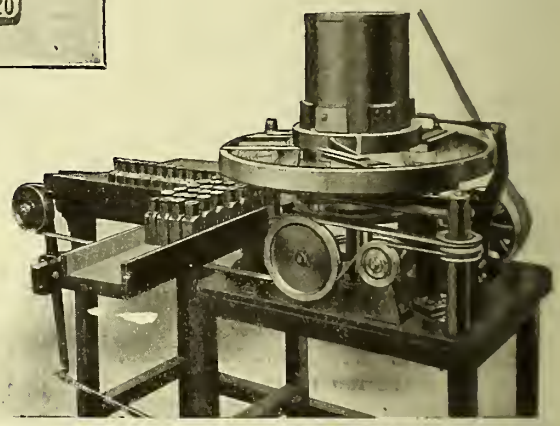
¶ We know YOU have Shopfitting Troubles; it is our sole business to HELP YOU!

SHOP FITTERS

THE

FORGROVE COUNTING and FILLING MACHINE

OUTPUT 600—1200 BOTTLES per Hour.



POINTS TO NOTICE.

GUARANTEED TO COUNT ACCURATELY.
COUNT CAN BE VARIED.
NARROW NECKED BOTTLES USED.
CAN BE MODIFIED FOR PILL BOXES.
DOES NOT BREAK OR DAMAGE TABLETS.

Reference to users on application.

THE FORGROVE MACHINERY CO., LTD.,
DEWSBURY ROAD, LEEDS, and
81/83 Knightrider Street, LONDON, E.C.

THE

'EUREKA' TABLET MACHINE

Has been proved to be ***THE BEST.***

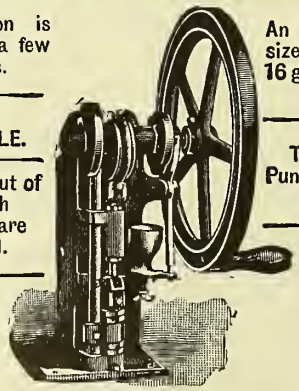
USED EXCLUSIVELY IN ALL THE LEADING PHARMACIES, DISPENSARIES, HOSPITALS, etc.

Its operation is mastered in a few minutes.

IT IS SO SIMPLE.

Cannot get out of order with ordinary care exercised.

Price £6 nett.
Carr. Paid British Isles.



An output of any size Tablet (up to 16 grs.) of 100 per minute.

Two sizes of Punches with each Machine.

Tablets made on the 'EUREKA' cannot be excelled.

THE MOST EFFICIENT HAND MACHINE.

Complete Catalogue and Lists forwarded on receipt of P.O.

Sole Agents for **F. J. STOKES MACHINE CO.,**
THOMPSON & CAPPER, LTD.,
Manufacturing Chemists,
MANESTY BUILDINGS, COLLEGE LANE, LIVERPOOL.
Tel. No. 2098 ROYAL. Telegrams: 'SANITAS' LIVERPOOL.
Code: 5th EDITION A B C.

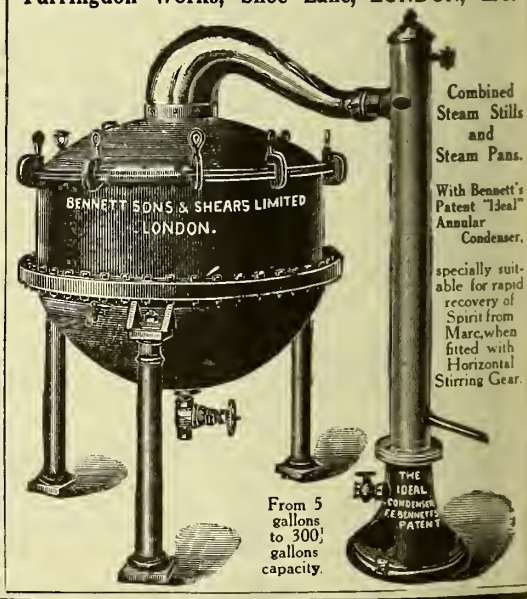
Telegraphic Address:— *"CUPRITE LONDON."* *Telephone:—* *790 HOLBORN*

BENNETT, SONS & SHEARS,

LIMITED,

Engineers and Coppersmiths,

Farringdon Works, Shoe Lane, LONDON, E.C.

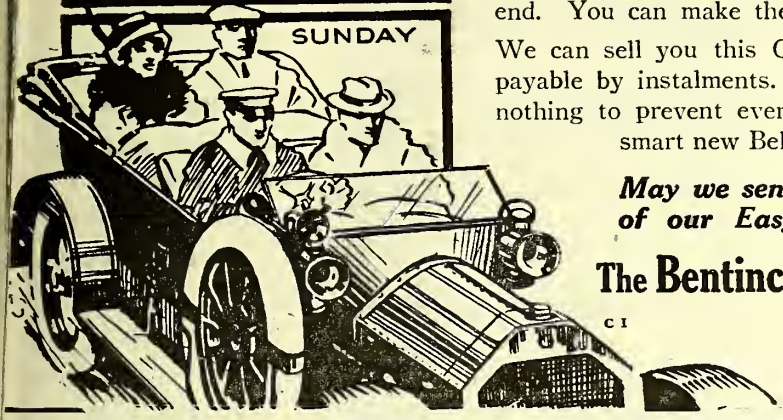


Combined Steam Stills and Steam Pans.

With Bennett's Patent "Ideal" Annular Condenser,

specially suitable for rapid recovery of Spirit from Marc, when fitted with Horizontal Stirring Gear.

From 5 gallons to 300 gallons capacity.



Belsize

Let your Car work for you as you pay for it.

Do not disturb your capital.

Buy a Belsize 10/12 H.P. with a dual body, and you have a Light Delivery Van for six days of the week and a four-seater Touring-Car for the week-end. You can make the change in a few minutes.

We can sell you this Car for **£275** complete, payable by instalments. On these terms there is nothing to prevent every Chemist from owning a smart new Belsize Car at once.

May we send you full particulars of our Easy Payment System ?

The Bentinck Motor Supply, Ltd.

C I

13 SPRING GARDENS,
MANCHESTER.

Chemists and Packers of Sundries and Counter Adjuncts

Should Write for Particulars of

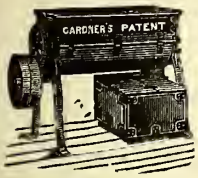
HAND FILLING TAPS,
FLAT TIN FILLING MACHINES,
LOW PRICED BOTTLE FILLING MACHINERY,
ACCESSORIES, SPECIALLY CONSTRUCTED FOR RETAIL AND SMALL WHOLESALE ESTABLISHMENTS, *to*

ROBERTS'
PATENT FILLING MACHINE CO.,
Head Office & Showroom: 33 Roundcroft St., BOLTON.

GARDNER'S PATENT

"RAPID" SIFTERS & MIXERS

OVER 4,000 working in almost every Trade where POWDERS are Sifted and Mixed and Lumps Reduced, all being done at one operation and without loss by dust.



FOR HAND OR POWER.

From 55/- to £90.

CATALOGUES FREE.

WM. GARDNER & SONS, Engineers, GLOUCESTER.

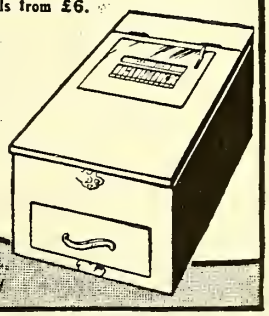
30/- NATIONAL Autographic TILL

THE Till as illustrated has writing space 4¾ inches wide ruled for four classes of transactions. Cash, Received on Account, Charge and Paid Out. Size 10 inches wide, 19 inches deep and 8¾ inches high.

The output of Nationals of all kinds is over 175,000 per year. This enables us to guarantee to furnish a better Cash Register or Autographic Till for less money than any other concern in the world.

Receipt Issuing Autographic Tills from £6.

Write for Booklet containing large illustrations in natural color of Tills and Cash Registers to suit every kind of business.



NATIONAL CASH REGISTER CO., LTD.,
225, Tottenham Court Road London W

"DAMSCHINSKY'S"

American Liquid Hair Dye

ONE PREPARATION.

FOR THE HAIR & BEARD (in Three Shades),

BLONDE, BROWN, & BLACK.

It contains no injurious substance. Dyes the Hair, whether grey or red, to any colour—from the finest blonde to the deepest black. It is efficacious and reliable. The oftener the colour is used, the darker becomes the shade of hair — so that the original colour of hair may be retained. It is a Dye, not a bleach. Will not give dark hair a light shade.

For orders of not less than 6 dozen, we give 1,000 Counter Bills with customer's own name and address as agent.

For quantities of not less than 2 gross, we print customer's own name and address on labels as agent.

PRICES:

1/3 Size:

9/- per Doz.

2/- Size:

12/6 per Doz.

CERTIFICATE.

This is to certify that I have examined C. DAMSCHINSKY'S LIQUID HAIR DYE, and find it to be free from all substances which might have an injurious effect, provided that the directions be adhered to. Especially is this preparation free from salts of lead and silver.

Dr. M. Hasenclever,

Wall Street, New York. *Analytical Chemist.*

SOLE AGENTS FOR GREAT BRITAIN; **OSBORNE, GARRETT & CO., LONDON, W.**

HAYWARD'S

Eureka WEED KILLER

"EUREKATINE" FUMIGANT.

INSECTICIDES. LAWN SAND. WORM KILLER
AND ALL GARDEN CHEMICALS.

EASIEST TO SELL. STRONGEST & SAFEST PACKING.
PROTECTED PRICES. SALES THROUGH AGENTS.

Please write for Advertising Particulars, Window Displays, &c.

TOMLINSON & HAYWARD, LTD. LINCOLN.

HARVEY'S
GREAT REMEDIES FOR THE HORSE
WITH THE ADDED REMEDIES
(Protected Prices)

HARVEY'S ACONITE POWDERS,
For Chronic Cough, Broken Wind, Roaring, &c.
HARVEY'S WORM AND CONDITION POWDERS.
HARVEY'S WATTS' EMBROCATION, or Curb Bottle.
HARVEY'S WATTS' RED LOTION,
For Wounds.
HARVEY'S HAIR RESTORING OINTMENT.
HARVEY'S EDOS, or Tasteless Purging Powder.

THE ADDED REMEDIES:
HARVEY'S KOPPOS POWDER,
For Lymphangitis or Weed, and Inflammations generally. In Tins, **5/-** and **10/-** each.
HARVEY'S THRUSH SPECIFIC.
In Tins, **1/9** and **3/-** each.
HARVEY'S HOOF OINTMENT.
In Tins **3/-** and **6/-** each.
Also
HARVEY'S HAIR RESTORER (Human),
A successful modification of the Veterinary Preparation. In Pots, **2/-** each.

The REMEDIES may be obtained of all the leading Druggists' Sundries Houses.

HARVEY & COMPANY, LTD., DUBLIN.

Handbills and Cardboard Dummy Tin sent post free on application to

THOS. KEATING, Chemist, 50 Union Street, BORO', LONDON, S.E.

EVERY GENUINE PACKAGE

BEARS THIS LABEL

EWEN'S LARD
is the
ONLY LARD
that
is made exclusively for pharmaceutical and Perfumery preparations and is the
BEST AND MOST RELIABLE
Guaranted B.P. Lard on the Market.

OF ESTABLISHED REPUTATION AND UNIVERSAL DEMAND.

JOHNSON'S

Photographic Preparations

AZOL, SCALOIDS, SOLUTIONS, PACKETS, MOUNTANT, ACID-FIXING, Etc. Etc.

Sell readily at good profits and give satisfaction to the purchaser.

Illustrated Price List sent on application.

JOHNSON & SONS, *Manufacturing Chemists, Limited,*
CROSS STREET, FINSBURY, LONDON.

NOW IS THE TIME TO STOCK

ANDREWS' LIVER SALT

TO MEET THE SPRING DEMAND.

ANDREWS' shows a good profit. Is backed by steady advertising. Ensures a quick turnover. Makes satisfied customers. Means repeat orders.

Tins ... ... 4d. & 8d.

Write for Particulars of
SPECIAL OFFER for SPRING DELIVERIES
to the Manufacturers—
SCOTT & TURNER, LTD., Newcastle-on-Tyne.

WILLIAM LASSON'S

Hair Elixir

has a 30 years' reputation as an
Unique Hair Producer.
All wholesale houses supply it.
Chemists & Druggists
should apply for
COLOURED ART PRINT,
a great help in pushing its sale.
Post free. Write to-day to
Sole Consignee:
M. LINDNER,
FARRINGDON AVENUE, LONDON, E.C.

Sphagnol

A Proved Healer of Skin Diseases

Strongly recommended by Doctors

Sphagnol can cure the most acute forms of Eczema, Psoriasis, Acne, Herpes, Ulceration of the Ear, Blepharitis, Ringworm, Dandriff, Hæmorrhoids, and Pruritus.

Sphagnol is an Antiseptic Preparation, easily applied, and can be borne by even the most sensitive parts.

It has been tested for many years by medical men, and their reports leave no room to doubt its efficacy.

Sphagnol Preparations consist of Soaps, including a very fine Shaving Soap, Suppositories, Ointment, and Cream, which are put up in an attractive style.

Chemists are cordially invited to write for Full Particulars and Free Samples.

PEAT PRODUCTS (SPHAGNOL) LTD
19 Queenhithe, Upper Thames St., London, E.C

BAISS BROTHERS & STEVENSON'S

EFFERVESCENT

CARLSBAD SALT

This is a most attractive and paying line, prepared according to our analysis of the celebrated Carlsbad Springs. It keeps admirably, contains no sugar, and does not cake. It is by far the best Carlsbad Salt you can offer your customers.

PRICE.

In 8-oz. Square Plug Cheltenhams.
(Note size—8 fluid ounces.)

10/- per doz. net.

Special quotation given for 6 dozen lot and upwards.

In 3 Styles, Black and Gold, Green, and Red and Blue Cartons.

"OWN NAME."

Chemist's own name printed on orders for 3 dozen upwards.

SHOWCARDS.

Attractive Showcards supplied.

Syrup of Figs is another of our preparations in large and growing demand.

In panelled flats in handsome Cartons, 3-oz. 4/6, 6-oz. 7/6 per dozen.
Guaranteed to keep in any climate.

Telegrams "Ipecac London." A B C Code, 4th & 5th Editions.

Baiss Brothers & Stevenson Limited.

MANUFACTURING CHEMISTS & WHOLESALE DRUGGISTS

174-175 Grange Rd., Bermondsey, London.

Telephone Central 2672 and 3664.

JACKSON'S "PARIS" NON-Glossy HAT DYES

FOR CHIP, TAGAL and YEDDA HATS.

NON-INFLAMMABLE.

¶ Each bottle is packed in a cardboard box with suitable brush. ¶ Made in thirty of the latest and most fashionable shades, **the finest range ever offered.** ¶ A Folding Hinged Showcard 13 × 10 with 30 specimens of dyed plait, supplied with all orders, counter bills, etc. ¶ These Dyes dry at once without gloss, are rainproof and will not chip or crack. Finest quality, best packing.

MAKERS OF HAT POLISH TO THE LUTON HAT TRADE FOR 50 YEARS.

SHADES.

1. Burnt Straw	11. Muscatel	21. Sky Blue
2. Fraize	12. Silver Grey	22. Saxe Blue
3. Putty	13. Mole	23. Corn Blue
4. String	14. Amethyst	24. Royal Blue
5. Stone	15. Reseda	25. Navy Blue
6. Hay	16. Wine	26. Maize
7. Cerise	17. Myrtle	27. Cinnamon
8. Lavender	18. Olive	28. Tabac
9. New Violet	19. Cardinal	29. Peacock
10. New Purple.	20. Claret	30. Black

Price 4/- per dozen. F.O.B. London or Liverpool.

T. S. JACKSON & SONS,

Corner Wharf, Malt Street, Old Kent Road, LONDON, S.E.

ESTABLISHED 1853.

PROPRIETORS OF JACKSON'S WELL-KNOWN "WAX FLOOR POLISH" and "VARNISH STAINS."

WHOLESALE AND EXPORT ONLY. Also through the Wholesale Houses. Write for Price List and Tint Cards.

DIAMOND MILLS PAPER CO.
44 MURRAY STREET, NEW YORK, U.S.A.

BROMO

TOILET PAPER

This well-known brand has been made and sold by us for over 40 years. We hereby call to the attention of our old or prospective customers that the GENUINE article is made ONLY by us, and our name will be found thereon as below.

DIAMOND MILLS PAPER CO.
44 MURRAY STREET, NEW YORK, U.S.A.

EDWARDS' "HARLENE HAIR-DRILL"

IMPORTANT NOTICE!

OUR Factory and Offices having again proved wholly inadequate for the demands of our business, we beg to give notice that on and after March 25 next our address will be:—

20-26 LAMB'S CONDUIT STREET LONDON, W.C.

HERE is proof that the Chemist sells our preparations without trouble.

"HARLENE" HAIR GROWER,
"ASTOL" HAIR COLOUR RESTORER,
"CREMEX" SHAMPOO POWDERS,
"ASTINE" PREPARATIONS, &c.

are the most widely advertised and most popular Toilet Essentials of the day.

INCREASE YOUR PROFITS BY SELLING THEM.

Price Lists, Showcards, Dummies and Counter Bills on Application.

EDWARDS' "HARLENE" CO.

104 HIGH HOLBORN, LONDON, W.C.

DRUGGISTS' TURNED WHITE WOOD BOXES

(ENGLISH MANUFACTURE)

OF EVERY DESCRIPTION.

These Boxes are made from Selected White Willow Wood & finely finished.

They are very cheap, from 1/- per gross upwards, WOODEN BOTTLES & VIALS also from 1/- per gross upwards.

Pill Boxes.

Inventors & Patentees of

Silicated Grease-proof Boxes.

A boon to Ointment Manufacturers.

A perfect substitute for a Covered Pot.

Wooden Vials.

Unbreakable and very light and saves half the duty in Countries where it is charged on the gross weight.

SILICATED GREASE PROOF PATENT BOXES

See that each Silicated Box is Stamped on the bottom with our Stamp, to avoid worthless imitations.

Price List and Samples on application.

ROGERS & CO., Carter St., Walworth, LONDON, S.E.

BEFORE PLACING YOUR ORDER

for any of the undermentioned lines, APPLY f PRICES, &c., to the LARGEST PACKER in the TRADE and

SAVE MONEY!

- "Vaseline"
- Camphor Ice
- Lanoline
- Cold Cream
- Cocoa Nut Oil
- Lip Salve
- Eucalyptus Oil
- Balsam of Aniseed
- Lung Syrup
- Household Embrocation
- Camphorated Oil
- Anti-Catarrh Salts
- Malt and Oil
- Primrose Tablets
- Brompton Lozenges
- Pine Tree Lozenges
- Licorice Juice ("Alcazar" Brand) in Sticks 4's, 5's, 8's, and 16's to the lb.
- Menthol Snuff
- Menthol & Eucalyptus Snuff
- Tube Goods of all kinds, including—
- Toilet Creams, Jellies, Tooth Pastes, Chillie Paste, Camphor Cream, &c.
- Brilliantine
- Lime Cream
- Toilet Paraffin
- Tooth Powder, &c.

TABLETS & PILLS.

We are now in a position to save you money on these also

SHIRLEY BROTHERS, LIMITED,

Whitecross Works, Rockingham St., LONDON, S.E.

ALL KINDS DECORATED AND PLAIN

TINS

FOR MANUFACTURING CHEMISTS.

WHOLESALE ONLY.

Specialties:

HEALTH SALT TINS.

Vaseline, Ointment & Camphor Ice Boxes. :: Tin Shaving Stick Cases.

CARBIDE TINS.

LIQUID METAL POLISH TINS.

Our up-to-date designs & high-class printing will increase your trade. Apply to—

The

Liverpool Tin Canister Co. Ltd.

WALTON, LIVERPOOL.

London Office: 7 Wilson St., E.C. Telephone: London Wall 7768.

STIPENDUM CORK STOPPERS

in all sizes suitable for KALIS, CITRATES, DISPENSING, and all FLUIDS.

STIPENDUM COVERED POTS

THE BEST FOR FACE AND TOOTH POWDERS, PASTES, AND OINTMENTS.

GREASE PROOF.

For Samples & particulars apply to

The Stipendum Stopper Co.

1 Newman Street, LONDON, W.

Tel. No. 3769 GERRARD.

SANDALWOOD OIL CAPSULES.

("4 MEDALS" BRAND).

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30 CAPSULES
IN EACH BOX.

Price per 16/6 doz.

N.B.—10 m. in each capsule, put up in metal boxes.

NOTE.—The finest English Sandalwood Oil only used.

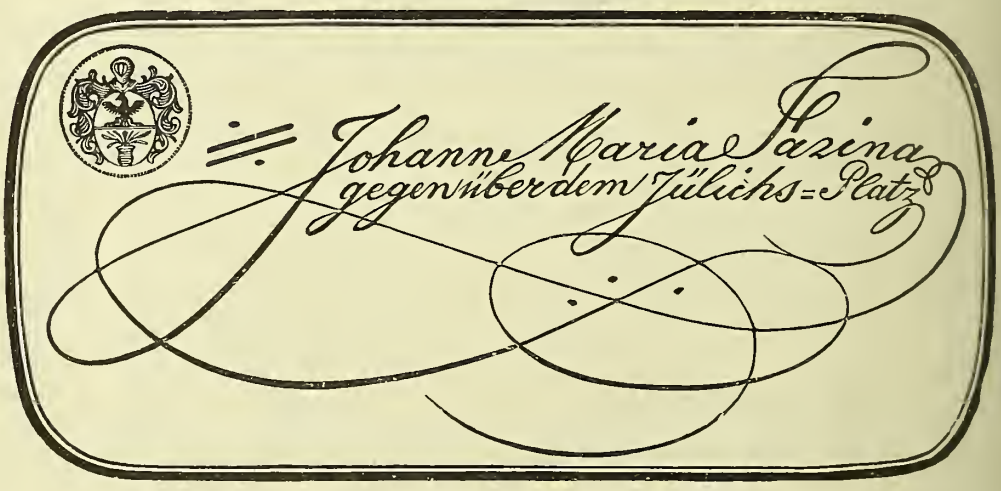
	Per dozen of 24	30	Per 1000.
l and Aloes	7/6	9/–	15/–
l, 2 minims	9/6	11/6	20/–
Circloids ... 25/- (36)	—	—	—
d's 1 Pill	3/4	4/6	7/–
2 „	3/6	5/–	8/–
3 „	4/–	5/6	9/–
ara-Sagrada, 30 minims ...	4/6	6/3	10/–
Perles ... 10/6 (36)	—	—	—
tor Oil, 15 minims	4/6	5/6	7/–
„ 30 minims	6/3	8/6	13/6
ulmugra Oil, 3 minims ...	6/–	7/6	12/–
„ „ 5 „	7/–	9/–	16/–
Liver Oil, 10 minims ...	4/–	5/–	7/3
„ „ 20 „ ...	6/–	7/–	11/–
aiba, Maranham, 10 minims ...	5/-	6/–	10/–
aiba and Cubeb Oil	6/6	8/6	14/–
aiba, Cubeb, and Alum ...	6/6	8/–	13/–
„ „ Buchu ...	7/6	9/6	16/6
„ „ Iron ...	6/3	8/6	13/6
„ „ Matico ...	8/–	10/–	22/6
„ „ Rhatany ...	7/6	9/–	13/6
osote, 1 minim	3/6	4/6	6/6
„ Carbonate, 5 minims ...	6/6	8/–	16/–

	Per dozen of 24	30	Per 1000.
Damiana Compound	6/6	8/–	12/6
Easton's Syrup, 30 minims ...	6/6	8/–	11/6
„ „ 1 drachm ...	7/6	10/–	16/6
Gregory Powder, ½-teaspoonful ...	8/6	10/–	20/–
Guaiacol, 2 minims	4/–	6/6	10/–
Male Fern, 10 „	7/6	10/6	20/–
Quinine, Ammoniated, 30 minims	4/9	7/–	11/–
„ „ 1 drachm	6/–	8/–	13/6
Quinine Sulphate, 1 grain ...	6/6	8/6	15/–
„ „ 2 grains ...	7/6	10/–	18/–
„ „ 3 grains ...	9/–	11/6	24/–
„ „ 5 grains ...	12/6	17/6	35/–
Santal Oil, 10 minims	14/–	20/–	40/–
Santal, Buchu, and Cubebs ...	14/–	21/–	45/–
Santal, Matico, and Copaiba ...	10/–	12/–	24/–
Santal, Cubebs, and Copaiba ...	10/–	12/–	24/–
Santal, 8 m., and Salol, 2 grains	13/–	18/–	35/–
Santal, 5 m., Copaiba, 5 minims	10/–	14/–	28/–
Santal Compound Capsules ...	12/–	17/–	33/6
Tar, Norwegian	6/–	7/6	12/6
Terebene, 10 minims	5/3	6/6	10/–
Turpentine, 5 minims	5/6	6/6	10/–
Wintergreen Oil, 5 minims ...	7/–	10/–	13/6

BY APPOINTMENT TO

HIS MAJESTY THE KING.

"THE GENUINE" EAU DE COLOGNE



For over 200 years, since 1709, its composition has been the jealously guarded family secret of

JOHANN MARIA FARINA
GEGENÜBER DEM JÜLICHS-PLATZ
COLOGNE.

Showcards, Counter Cards and Leaflets, on application to

J. and R. McCRACKEN, 10 BUSH LANE, LONDON, E.C

Stafford Allen & Sons, Ltd.

Manufacture

MEDICINAL PREPARATIONS

ALOIN
BELLADONNA
CAPSICUM
EXTRACTS, Solid, Granulated and Powdered
CASCARA
ERGOT
GINGERIN
JALAP RESIN
NUX VOMICA
PURE POWDERS
SCAMMONY RESIN
TINCTURES in BOND

WRITE FOR SAMPLES, QUOTATIONS and "THE HISTORY OF ALLEN'S ENGLISH."

Flower Farms & Distillery:
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Cowper Street, Finsbury, London.

Johann Maria Farina's Julichs Platz No. 4

GENUINE

EAU DE COLOGNE

is known throughout the world by the label on the bottle as shown herewith. Attention is drawn to the No. 4, which is the number of Johann Maria Farina's Factory Place, viz. Jülichs Platz No 4, in the city of Cologne on the Rhine.

By Appointment to H.M. King George V.

Buenos Aires, 1911, GRAND PRIX.

Turin, 1911, GRAND PRIX.

HIGHEST AWARDS.

Wholesale Agents:
FICKUS, COURTENAY & CO. Ltd.
36 Sackville St., Piccadilly
LONDON, W.

TWO of the World's FACE POWDERS ARE

Bourjois' Java Powder.

Minimum Retail Price ... 9½d. per Box.
1 doz. 7/6 per doz.; 6 doz. 7/3 per doz.;
12 doz. 7/- per doz.

BOURJOIS' Poudre Manon Lescaut

20/- per doz.

POPULAR EVERYWHERE.

BOURJOIS' Eyebrow Pencils, Rouges, Perfumes, Soaps, &c., always command a ready sale.

SOLE AGENTS—

HENRY C. QUELCH & CO., Ludgate Square, LONDON, E.C.

(See also page 51.)

L. GIVAUDAN,

GENEVA, SWITZERLAND.

Manufacturer of all kinds of

SYNTHETIC & AROMATIC CHEMICALS

Acetate of Linalyl	Jasmins
Bergamot art.	Musks
Cinnamic alcohol	Neroli
Citronellol	Phenylethylic alcohol
Coumarin	Rhodinol
Geraniol	Roses
Geranium	Violets
Jacintheas	

&c. &c.

LONDON BRANCH: 21 Mincing Lane, E.C.
AMERICAN BRANCH: Geo. Lueders & Co., 218 & 220 Pearl Street, New York.

HANDKERCHIEF EXTRACTS

All usual odours and the following new creations:—

Violette Victoria, Ixia, Orchidil Ambre, and No. 15.

Of the highest concentrations.

POMADES. CORPS DUR. PERFUMED OILS.

Please write for Price List.

CLAUDE RAYNAUD & Cie.,
100 BERMONDSEY STREET, LONDON.

OKELL'S ORIGINAL MONA BOUQUET.

(First introduced by the late JOSEPH O'KELL).

Registered Trade Mark, "DOUGLAS PIER."

The most popular and best-selling perfume in the market.
Retail Prices ... 1/-,1/9, 3/6, 6/-, 7/6, 10/6, per Bottle,
ALSO 3d. SAMPLE BOTTLES.

Shippers and Wholesale Buyers supplied on the best terms by
THOMAS WEST & SON, 1187 Chester Road, Stretford, **MANCHESTER.**

A. Boake Roberts & Co., Ltd.,

STRATFORD, LONDON, E.

. . FOR . .

SOLUBLE ESSENCES, ESSENTIAL OILS, OIL LEMON.

If you wish to make first-class ∴ Aerated Waters, use ∴
BOAKE ROBERTS' ESSENCES.

Finest Soluble Essences:

Lemon,
Orange,
Ginger,
Ginger Ale,
Stone Ginger Beer *(Cloudy),*
Clear Ginger Beer,
Kola Champagne,
Lime Juice and Soda,
Lemon Squash,
Raspberry,
Strawberry,
Pineapple,
Vanilla, &c. &c.

GOLDEN CARAMEL COLOURINGS, &c. and all sundries.

A. Boake Roberts & Co., Ltd.,

PEACH KERNEL OIL

(Guaranteed to pass any test of purity).

GENUINE SWEET ALMOND OIL

(Guaranteed B.P.)

JOSEPH GAZAN, Marseilles,
makes quite a specialty of the above.

STOCK KEPT IN LONDON.
Contracts delivered according to Buyers' requirements.

QUOTATIONS AND SAMPLES FROM THE SOLE AGENTS—

PLANTIN BROS., 5 Water Lane, Great Tower Street, London, E.C.

George Lueders & Co.

Cash paid in and surplus £80,000.

NEW YORK, 218 & 220 Pearl Street.

Branches:
CHICAGO, SAN FRANCISCO & MEXICO CITY.

Import and Export of

ESSENTIAL OILS, VANILLOES

SYNTHETIC PERFUMES, MUSK, AND CIVET.

We export: LINALOE (from Mexico directly), PEPPERMINT, BAY OIL, SPEARMINT, WORMSEED, WORMWOOD, &c.

A. W. SCHWARZ

Chemical Manufactory, ALTSTETTEN-ZURICH, SWITZERLAND.

Specialities:

SYNTHETIC PERFUMES

Abricotine, Amber
Ambrette, Ambrettine
Apple Blossom
Bergamott (Artificial)
Biancol, Birosine
Bouvardine, Capucine
Carnation, Cassie
Castoreum
Chirassol, Citral
Clover (Trèfle)
Coumarine, Cyclamine
Fern liquid
Fixateur, Fleuréol
Gardenia, Genetol
Geraniol, Glycine
Géranium-Roseine
Heliotrope (white)
Heliotropine, Honey
Honeysuckle
Hyacinth, Indol
Irine A., Irine B
Irine C., Irine D.
Iris of Florence
Iris liquid Lavender
Linalool
Lilac Flower
Lily of the Valley
Lime Flower (Tilleul)
Mignonette (Réséda)
Mimosa, Musc C.
Musc Xylène
Musc liquid
Monoviola
Narcissus, Neroli
New-Mown Hay
Pelopomine
Peony
Radialine, Raldiné
Rose de Dijon
Rose d'Orient
Roseine
Royal Oak
Safranor

ESSENTIAL OILS

Special Violet
Sweet Pea
Thyme, Trefline
True Violet
Tuberose
Vanilline
Violet Flower
Violet Verdure
Violet d'Azour
Wallflower
White Violet
Ygeana
Ylangol (artificial)
Yranol

Price List and Samples on demand.

A PREPARATION made from the finest ingredients and presented in a tasteful manner is CALCULATED TO DO YOU CREDIT.

Ciola Tooth Powder makes a
TWOFOLD APPEAL TO THE RETAILER
on account of its

Good Buying Points & Good Selling Points.

It makes
A CREDITABLE SHOW
Is
ONE YOU CAN SAFELY RECOMMEND
OFFERS A GOOD MARGIN OF PROFIT
SECURES REGULAR CUSTOMERS

Additional advantages:
PROTECTED PRICES and GENEROUS TERMS.

6d. tins 3/6 per doz. } less our usual discounts
1/- tins 6/- „ „ }

NICE APPEARANCE
VALUE FOR MONEY
DELICATE AROMA
PURITY OF INGREDIENTS
PERFECTION OF ADMIXTURE AND FINISH
ANTISEPTIC CHARACTERS
very pleasant, not poisonous.

CIOLA
Tooth Powder

In Tins **6d.** and **1/-**.

Absolutely free from poisons or colouring matter.

We are so convinced of its merits that we are prepared to offer a SPECIAL BONUS of one dozen 6d. tins free to each new customer on receipt of orders for not less than 3 dozen 6d. tins.

F. SCHUTZE & Co., Ltd., Black Bull Works, Caledonian Market, London, N.

THE LESCOL PERFUMERY CO.

beg to announce that in addition to their well-known popular lines they now have an extensive range of

NEW LINES.

Before placing orders, BUYERS will be well advised to send a card stating requirements, when a price list with coloured illustrations of those suitable to their market will be sent immediately.

Orders dispatched in rotation; to ensure early delivery write at earliest opportunity to:—

THE LESCOL PERFUMERY CO.,
LOMOND GROVE,
CAMBERWELL GREEN,
LONDON, S.E.

Telephone: 810 Hop.

Telegrams:
"VANILLIN-CAMBER, LONDON."

£5 REWARD!

is what we offer you in profits on each gross sold of

ROYAL COURT HAIR DYES,

and greater still is the margin if you take advantage of our window show bonus offer:—

	Cost Price.	Selling Price.
1 gross 1/3 size Royal Court Hair Dyes	£4 10 0	£9 0 0
1 doz. " " " bonus for window show	—	0 15 0
½ doz. 2/- size " " " " " "	—	0 6 0
	4 10 0	10 1 0
Less 5% cash 7 days	0 4 6	4 5 6
	4 5 6 showing	5 15 6 PROFIT.

OUR sales for the past ten years have steadily increased until our certified figures for 1912 showed an output double any previous twelve months' record. In seven months' trading last year we reached the figures of 1912. As we do not advertise direct, this is a proof of the merit of Royal Court Hair Dyes and the satisfaction we give our customers in reasonable profits.

SELL THE BEST AND GIVE YOUR CUSTOMERS SATISFACTION.

J. KNOX WALKER & CO., LTD., 422 Kingsland Road, London, N.E.

OVER 100% PROFIT ENSURED & PROTECTED (P.A.T.A.)

for sellers of

Laurence's Hair Dyes

One solution, nine shades.

A first-class article with an excellent demand, created entirely on its own merits, and carrying a first-class profit.

Size.	Minimum retail.	Minimum wholesale.	
1/-	1/-	7/6	per doz. less 5% discount
1/6	1/6	9/-	
2/6	2/3	15/-	
3/6	3/3	21/-	

SPECIAL BONUS.

Buyers of 3 doz. bottles receive 3 bottles gratis (may be assorted and any size).
Do. 6 doz. do. 8 bottles gratis.
Do. 12 doz. do. 18 bottles gratis.
Equivalent in the case of the size in most general demand, viz. 1/6 size to 4/6, 12/- and 27/- respectively.

SOLE PROPRIETORS—

C. R. HARKER, STAGG & MORGAN, LTD.

DEVON WHARF,

Emmott Street, Mile End, London, E.

"A Bottle of Anzora, Please!"

If you have not already had this demand you shortly will have, for "Anzora Cream" is being extensively advertised both in the Press and on the Railways—every day thousands of prospective buyers see these advertisements and are influenced to buy.

Be prepared to meet these buyers. Stock "Anzora" now, it will mean extra and remunerative business for you, for "Anzora" is on the P.A.T.A. and ensures

80 % Protected Profit for the Retailer

when purchased in lots of 3 doz. and upwards.

Trade Terms:

Per doz.	Retailed at
11/6	18/-
19/6	30/-

We give 10 % discount on orders of 3 dozen or more.

ORDER A SUPPLY TO-DAY from your usual Wholesaler and send a card to us for Showcards.

THE ANZORA PERFUMERY CO.

32/34 Willesden Lane, London, N.W.

To All Chemists, Everywhere!

¶ Your customers often ask you to recommend to them "a really good Tooth Brush."

¶ They complain that the Tooth Brushes they usually buy are either too hard or too soft, and that the bristles begin to come out after the brush has been in use for only a short time.

¶ Now this is where the "KOH-I-NOOR" Tooth Brush scores.

¶ It is made in three degrees of stiffness to suit varying tastes, and it is impossible to pull out the bristles in a "KOH-I-NOOR" brush, even by force. The handles are flexible, and varied in colour and shape. Only the best materials are used in the manufacture of the "KOH-I-NOOR" brush, and the finish is the best on the market.

¶ You can thus advise the purchase of the "KOH-I-NOOR" brush with every confidence to all classes of customers.

¶ To help you to sell we are beginning a regular advertising campaign in the public press. This will increase the demand, and you should lay in full stocks in anticipation, and *see that the registered word "KOH-I-NOOR" is on every brush.* Take no imitations.

¶ The "KOH-I-NOOR" Tooth Brushes are obtainable through any of the Wholesale Houses. If you have not already ordered, send for sample case No. 517, as shown in the engraving above. The case is filled with brushes with handles of five assorted colours, and attractive showcards are also supplied.

DO NOT FORGET OUR ADVERTISING CAMPAIGN TO THE PUBLIC STARTS ON MARCH 1.

J. C. & J. FIELD, LTD., TOILET SOAP EXPERTS, LONDON, S.E.

Direct the attention of **CHEMISTS** and **DRUGGISTS** to their

"SPERMACETI" TOILET SOAP.

Prepared with Cetaceum Alb. Pur. (B.P.)

An Excellent White Skin Soap. Selling at **4d.** per Tablet.

Advertised in the Popular Journals.

Shows an Excellent Profit. Protected Prices.

There is also a "Free Sample" Scheme in connection.

Manufacturers of "MIGNONETTE," "LILY CREAM," "SAVON aux FLEURS," and other Brands of TOILET SOAPS, showing TRADE PROFITS of from 28% to 40%

We make a speciality of the preparation of CHEMISTS' PROPRIETARY LINES, and cordially invite applications for SAMPLES and PRICES. New List now ready.

Telegrams: "Ozokerit, Lamb, London." Estd. 1642. Telephone: 5905 Hop.

The Pharmacist's Clients deal with him because they know he is a judge of good products.

JEWSBURY & BROWN'S ORIENTAL TOOTH POWDER,

6d. and 1/-,

Satisfies the most Critical Judges.

TRY A SAMPLE YOURSELF.

JEWSBURY & BROWN, Ardwick Green, MANCHESTER.

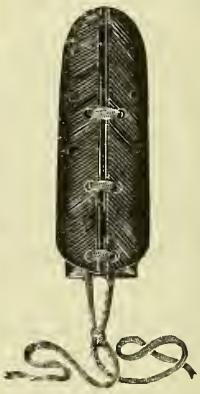
9

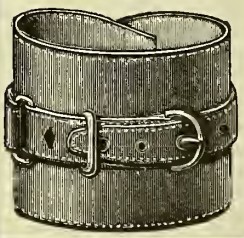
PAROUBEK'S

"FOLDO" LACING FINGER STALLS

(BLACK OR TAN)

3/9 PER DOZEN.





PAROUBEK'S "TRIUMPH" WRIST STRAPS

(Felt lined). 3/9 per doz.

BOTH THE BEST.

Of all Wholesale Houses.

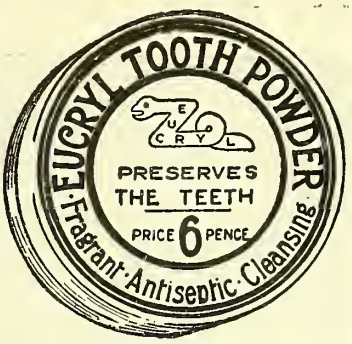
Sole Consignees for Great Britain and Colonies:

SOLPORT BROS.
184-190 GOSWELL RD., LONDON, E.C.

EUCRYL

Yields

100% PROFIT.



MAKE 1914 PROFITS BETTER.

From January to December you can readily sell Eucryl Tooth Powder, and ON EVERY SALE YOU CAN POSITIVELY MAKE 100% profit.

Take up Eucryl—just see what a difference one year's trading with but this one article at 100% profit will make to your net profits at the end of the year. Start now by accepting this

SPECIAL BONUS OFFER

With every opening order for three dozen tins of Eucryl we send one dozen 6d. tins extra and free of charge. (This offer of one dozen 6d. tins free also applies to all repeat orders of six dozen tins at 3/6 per dozen net, carriage paid). Free samples, showcards, advertising matter — Selling Helps — supplied with every order for "The Dentifrice paying 100% profit."

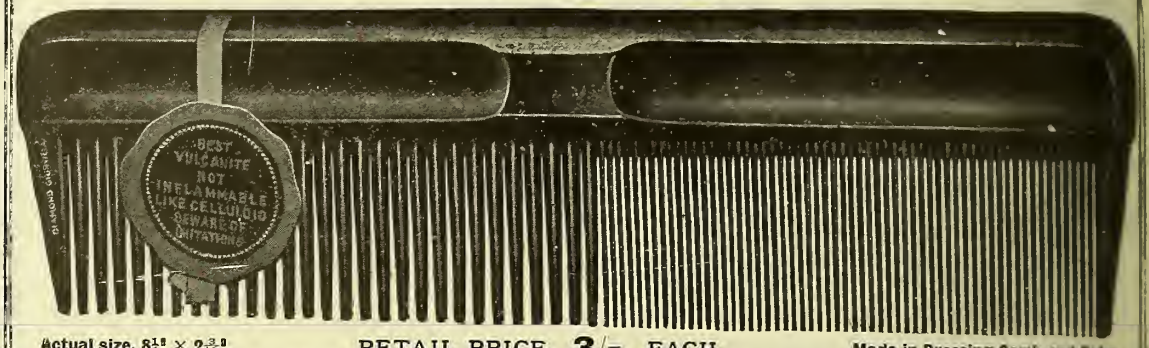
EUCRYL

Limited,

61-63 Lant Street, Southwark, London, S.E.

Traun's "DIAMOND" Gripwell Comb

PATENT, DESIGN REGD.



Actual size, $8\frac{15}{16} \times 2\frac{3}{16}$. RETAIL PRICE **3/-** EACH. Made in Dressing Comb and Rake.

Specially designed to make the use of the Comb a **Perfect Luxury and Comfort.** All teeth carefully grailed and highly polished. Made of **Finest Para Vulcanite,** which does not split like Horn, but is **Elastic, Strong and Springy,** and is the **Ideal Material for Combs.**

Manufactured by the Makers of the

CELEBRATED GRIPWELL COMBS,

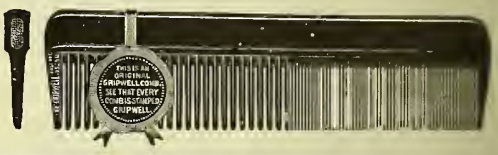
which are supplied in a variety of shapes and sizes

TO RETAIL FROM 1/- UPWARDS.

STYLISH SHOWCARDS SUPPLIED.

SOLD BY ALL THE USUAL WHOLESALERS.

GUARANTEED UNBREAKABLE.



Much money is to be gained by selling

OZOFLUIN

a fluorescent, granulated, highly perfumed

Pine Needle Bath

with medical properties.

Free samples to wholesalers, perfumers, druggists and importers.

OZOFLUIN CENTRALE, BASLE (Switzerland).

AMAMI

MANICURE PREPARATIONS ARE THE BEST.

PRICHARD & CONSTANCE, 469 Holloway Rd., London, N.

SPECIALITY—AMAMI NAIL POLISHING STONE.

1/- Box Net. Trade 9/- doz.

DENTABS

Tooth and Mouth Wash.

THE BRITISH MEDICAL TOILET CO., LTD.
33 CHANCERY LANE, LONDON, W.C.

BRILLIANT PLATE.

"ALBATUM OR WHITE ROUGE"

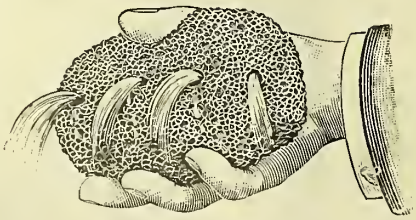
GIVES A UNIQUE POLISH TO ALL SILVER AND ELECTROPLATED GOODS.

In 6d. and 1/- Boxes, and Tins, 2/-

BRADLEY AND BOURDAS,

6 PONT STREET, S.W.

The "CASCADE." *(Regd. Trade Mark.)*



WANKLYN'S PATENT.
India-Rubber Sponge.

BEWARE OF IMITATIONS!

Size Nos.	K1	K2	K3	K4	K5	K6	K7	K8
Per Dozen	7/9	9/6	10/6	16/-	19/6	31/6	38/-	42/-

SHOWCARDS NOW READY.

These goods can be obtained from all the Wholesale Houses or from

H. A. WANKLYN,

17 MANCHESTER AVENUE, ALDERSGATE ST., LONDON, E.C.

Telegrams: "WANKLYN LONDON." *Telephone:* HOLBORN 2553.

Telephone: CENTRAL 702.

ADOLPH SCOTT,

Telegraphic Address: "ADOLPH BIRMINGHAM."

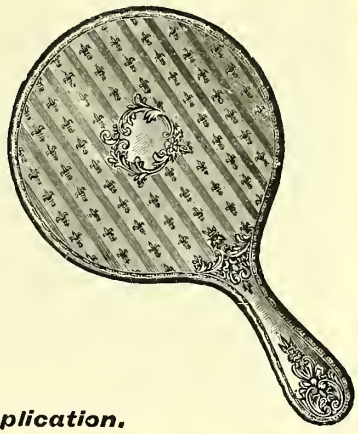
24, 25 & 26 GREAT HAMPTON STREET, BIRMINGHAM.

SILVERSMITH & SPECIALIST IN TOILET WARE.

Latest Designs in

BRUSHES
MIRRORS
COMBS
SCENT BOTTLES
SCENT SPRAYS
TOILET BOTTLES
TRINKET BOXES
MANICURE SETS, &c.

IN STERLING SILVER AND ALSO IN SILVER PLATED.



Catalogues on Application.

Turner's Brushes

are the goods that enable Pharmacists to meet Store competition, and keep on selling. For window display in February they recommend **NAIL BRUSHES**, and have a new line made by a patent process that will command attention and give satisfaction.

Send for Price List and Samples to:—

TURNER, SON & CO., LTD.
Brush Manufacturers,
49 Tabernacle Street, LONDON, E.C.

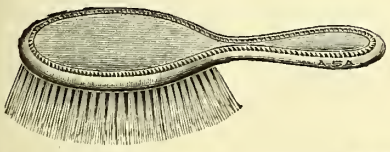
SENT ON APPROVAL—COMBS AND

BRUSHES

R. Hughes & Son 9 CLIFTON ST., FINSBURY SQ., LONDON, E.C.
Telephone: Central 9834.

BRITISH MANUFACTURE.

Britain's only Hygienic Hair Brush.



Encased **throughout** with **untarnishable** Aluminium. Will absolutely prevent dandruff. Materials dressed in London under approved sanitary conditions. To be obtained from wholesale houses, or particulars from the manufacturers:—
"SILWYR," 11 FORE ST., LONDON, E.C.

Quality & Price in Tubes

Quality is of primary importance in Collapsible Tubes, Sprinkler Corks, Shaving Stick Tubes, and all Druggists' Metal Goods ; and given quality, the next consideration is a reasonable price.

Our experience of more than 100 years and our reputation are sufficient to assure you of obtaining goods upon the quality of which you may rely absolutely ; the largest factory in the world, a staff of 800 hands, and the scale on which we buy our raw material, enable us to give you an advantage in price as well.

Have you seen our Patent Adhesive Capsule, which cannot be removed without destroying it?

Absolute guarantee of purity of the contents.

BETTS & CO., Ltd., 1 Wharf Rd., City Rd., LONDON, E.C.

PLEATED PAPER BOTTLE CAPS

THE BEST IN QUALITY AND CHEAPEST ON THE MARKET. 20 YEARS' REPUTATION.

Nos. 0, 1, 2, 3, 3b, 10, 20, 30 for Phials **4d.** per gross.
" 4, 4b, 40 for 3 to 6 oz. Bottles ... **4½d.** "
" 5, 5b, 5½, 50 for 8 to 10 oz. Bottles **5d.** "
Nos. 6, 6b, 60 for Pints ... ... **5½d.** per gross.
" 39 for Winchester Quarts ... **7d.** "
" 8, Long for Wines... ... **9d.** "

ELASTIC BANDS : Small, **3d.** per gross ; Large, **4d.** per gross.

Also MANUFACTURERS of DISH and DESSERT PAPERS, HAM FRILLS, PIE COLLARS, SOUFFLET CASES, &c. &c.

WHOLESALE AND EXPORT ONLY

From

DARTER, WILKINSON & CO.,

23, 24, 25 Sandland Street, and 3, 4, & 5 Gray's Inn Passage High Holborn, LONDON, W.C.

KYHO

Registered. Registered.

(Protected by the P.A.T.A.)

The Wonderful New HAIR RESTORER

Cooling and refreshing to the scalp, promoting new growth and restoring the natural vigour of the Hair.

Contains no grease or colouring matter, yet has been found to revive the natural pigment.

Sold in bottles, **2/6** ; minimum retail price, **2/3.**
To the Trade, **21/-** per doz. from all the leading Wholesale Houses, or from the

KYHO PROPRIETARY, Ltd., 17 Victoria St., S.W.

A Special **BRILLIANTINE** and a **SHAMPOO FLUID** are also supplied to be used with **KYHO.** **1/-** per bottle ; **9/-** doz to trade.

For further particulars see our full page adot. in "The Chemist & Druggist," March 30, 1912.

Some of the "Vaseline" Specialities AND THEIR PRICES

Yellow.

PENNY TINS	7/- per gross.
TWOPENNY TINS	13/- ,,
No. 1 size, in boxes of 1 gross ...	18/6 ,,
,, 1 ,, ,, 3 dozen ...	18/9 ,,
,, 2 ,, ,, 1 ,, ...	37/- ,,
Collapsible tubes, No. 1 size, 2/6.	No. 2 size, 5/- doz.
No. 1 size, bottle, in cardboard case ...	3/- per doz.
,, 2 ,, ,, ,, ,, ...	5/- ,,
½-lb. tins, round	6/3 ,,
1 ,, ,, square	10/6 ,,
5 ,, ,, ,, ...	30/- ,,
10 ,, ,, ,, ...	5/- per tin.
25 ,, ,, ,, ...	12/- ,,
50 ,, ,, ,, ...	23/- ,,

White.

Twopenny Tins (three doz. in box) ...	13/6 per gross.
Collapsible tubes, No. 1 size	3/6 per doz.
,, ,, ,, 2 ,, ...	5/6 ,,
Blue Seal, in bottle, carton	3/6 ,,
No. 1, 3-oz. size, in cartons	6/- ,,
,, 2, 6-oz. ,, ,, ...	10/- ,,
½-lb. tins, round ,, ...	10/- ,,
1 ,, ,, square ,, ...	20/- ,,
5 ,, ,, ,, ,, ...	60/- ,,
10 ,, ,, ,, ,, ...	9/3 per tin.
25 ,, ,, ,, ,, ...	22/- ,,
50 ,, ,, ,, ,, ...	41/8 ,,

Red or Veterinary.

½-lb. tins, round	4/- per doz.
1 ,, ,, square	5/6 ,,
5 ,, ,, ,, ...	22/- ,,
10 ,, ,, ,, ...	3/6 per tin.
25 ,, ,, ,, ...	7/6 ,,
50 ,, ,, ,, ...	13/4 ,,
Half-barrels, about 1½ cwt.	28/- per cwt.
Barrels, about 3 cwt.	24/6 ,,

Sulpho for Dogs.

In jars	9/3 per doz.
In 5-lb. tins	4/8 each.
10-lb. tins	8/3 each.

White Liquid.

No. 0 size bottle	8/3 per doz.
,, 1 ,, ...	16/6 ,,
,, 2 ,, ...	24/9 ,,
5-lb. tins	8/6 per tin.

Analgic	9/- per doz. tubes.	
Borated	4/3, 7/6	,,
Camphorated	5/-, 7/6	,,
Capsicum ...	5/7, 9/-	,,
Carbolated ...	4/3, 7/6	,,
Mentholated	5/7, 9/-	,,
Oxide of Zinc	5/7, 9/-	,,

Collapsible tubes, including Government Stamp.

Perfumed White.

Collapsible Tubes	4/6, 7/-.
No. 1 (bottle in carton)	8/6 per doz.
No. 2 size, handsome bottle in carton, with glass stoppers	12/6 ,,

Hair Tonic.

No. 1 size	9/- per doz.
(Original Cases of 12 dozen)	
No. 2 ,, ...	18/- ,,

Pomade.

Blue Seal

No. 1 size, in boxes of 1 gross	20/6
,, 1 ,, ,, 3 dozen	21/-
(Original cases of 5 gross)	
No. 2 size, in boxes of 1 dozen	41/-
Collapsible tubes	2/10 per doz.
No. 1 size, bottle, in cardboard case ...	3/11 ,,
,, 2 ,, ,, ,, ,, ...	7/10 ,,

Cold Cream.

Twopenny tins (3 doz. in box)	15/- per gross.
Tubes	4/9, 8/3 per doz.
Glass jars	3/4, 5/-, 8/3, 16/6, 19/- per doz.

Camphor Ice.

Fancy tin box	3/0½ per doz.

"VASELINE" is the Registered Trade Mark of the

Chesebrough Manufacturing Co.

(CONSOLIDATED) NEW YORK,

42 HOLBORN VIADUCT, LONDON, E.C.

Complete Price List sent on application.

LIQUID PARAFFIN

(PAR. LIQ.)

HIGHEST STANDARD OF EXCELLENCE.

WATER WHITE & WHITE PARAFFIN LIQ. OILS.

PETROLEUM JELLIES

(PAR. MOLLE ALB. AND FLAV.)

WHOLESALE ONLY FROM—

THE STERN SONNEBORN OIL CO., LTD., FINSBURY SQUARE, LONDON, E.C.

TO USERS and DEALERS in METH. SPIRIT and SPIRIT OF WINE.

FOR QUOTATIONS apply to—

PRESTON'S LIVERPOOL DISTILLERY Co., Ld.

The Largest Makers in the Kingdom.

BANKHALL DISTILLERY, SANDHILLS, LIVERPOOL. Office; 4 India B'ngs, Water St., Liverpool.

ROBARE'S AUREOLINE

Or GOLDEN HAIR WASH.

4-oz. Bottles, 33/- 10-oz. Bottles, 66/- per doz.

Wholesale from R. HOVENDEN & SONS, LTD., and from all the principal Patent Medicine Warehouses in London.

S.V.M.

Best Quality Only.

RANDALL & SON,

Limited.

Wholesale and Export Druggists,

SOUTHAMPTON

CYAGOL

(Guaiacol Chlor.-iodid.)

Synonym—Mist. G. C. I.

The New Tonic—
Lung
Uterine and
General
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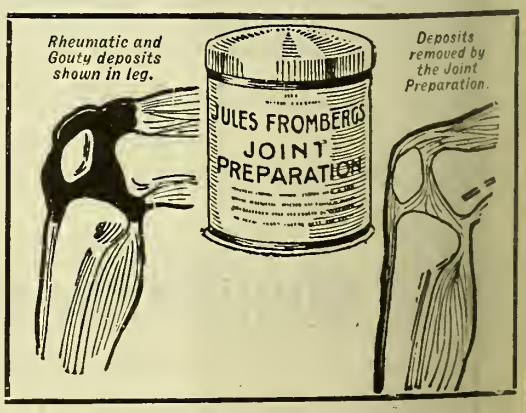

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Telegrams: "Chemicus Cannon London." Telephone 852 Bank (two lines).
Branches: ADELAIDE, MELBOURNE, AND SYDNEY, AUST

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EXPORTS STILL INCREASING.

Somebody is doing well in export business; are you in it? The Board of Trade figures for January 1914 show an increase in the export of drugs and medicinal preparations of

£11,178 IN VALUE

over the corresponding month last year. There is no evidence of any reaction, and all manufacturers and wholesalers of druggists' commodities should be having a share. The surest way to secure and to keep foreign business is to focus the interest of the Merchant Shipper on your brands. This you can do to the best advantage in the

EXPORT MERCHANT SHIPPERS' ISSUE
of
THE CHEMIST AND DRUGGIST,

now in course of preparation. The publication date is March 14, and all particulars as to advertising space are obtainable from the Publisher at 42 Cannon Street, London, E.C.

SUMMARY.

Subscribers are advised to read this column first.

Articles and Communications.

This week's Minor Botany article is unavoidably held over.

The progress of the Indian Excise duty on cannabis indica is traced in an article on p. 71.

The prescription problem on p. 73 is a stiff one. Four prizes are awarded for solutions of the January one.

An appreciation of the late Robert Clay Sudlow as a Freemason is printed on p. 65 in connection with his funeral, which was attended by many distinguished Masons.

The Revenue authorities have given a new facility to exporters of tinctures, and have also modified the regulations in respect to manufacture of perfumes in bond (p. 71).

The Insurance Risk this week is entitled "Territorial Representation *v.* London Caucus," it being written under the conviction that the latter will follow suppression of the former (p. 70).

The manner in which Insurance Medical Benefit administration is linked up is shown in a chart on p. 74, starting with the insured person, and working up to the Insurance Commissioners.

Our January mixture of salts for students contained calcium, lead, and potassium sulphates. Mr. J. Holdsworth (Manchester) and Mr. W. T. Lunt (Birmingham) win the prizes (p. 54).

Mr. R. Cecil Owen, continuing his remarks on Reorganisation, deals this week with Federation (p. 57). His last article on Companies is commended and criticised by correspondents (p. 85) and "Xrayser II." (p. 69).

News of the Week.

Mr. Owen Jones has been re-elected President of the Transvaal Pharmacy Board (p. 60).

A first-floor or drawing-room pharmacy in Paris is described by our correspondent there (p. 60).

In the course of the Royal visit to the London Docks warehouses Queen Mary indulged in nutmeg-sorting (p. 57).

Mr. Justice Sargent, in an interesting judgment, sustained the validity of the Vidal black cotton-dye patent (p. 61).

"Pil. cochia is an old, familiar remedy of a harmless nature," was remarked by a London Coroner this week (p. 59).

The proprietor of Beecham's pills seeks an injunction and damages against a London firm for alleged substitution (p. 61).

Mr. Asquith replied on Thursday to a question regarding the deficiency in the payment of Manchester panel chemists' accounts, saying that the remuneration is governed by contract (p. 81).

A Teddington chemist has been fined under the Sale of Food and Drugs Acts for selling tincture of iodine that was too strong (p. 61). Another white-pepper case in Liverpool has been adjourned on a technicality (p. 62).

Our Insurance dispensing reports contain some interesting particulars regarding the future of checking prescriptions dispensed in London. Some more recommendations of substitution in the provinces are also reported (p.75).

The deaths of several notable men of British pharmacy are reported—viz., Mr. M. T. Chater (Watford), Mr. M. J. Ellwood (Leominster), and Mr. Theodore Howard (formerly of Stratford, E.). We also report the death of Mr. Batty Langley, who blocked the Pharmacy Bill in 1903 (p. 64).

Trade and Market Matters.

First-hand information in regard to the various olive-oil crops and prices is given in a letter from our Marseilles correspondent (p. 85).

Outstanding market changes include an advance in American peppermint oil in tins and in branded goods, English castor oil, cinnamon (firsts and seconds), West Indian mace, and lemon oil. Strychnine, citric acid, palmarosa oil, Sudan acacia (spot) are more or less firmer. New Norwegian cod-liver oil, opium, white pepper, and turpentine are cheaper. Codeine and veratrine have been reduced by makers (p. 82).

CORNER FOR STUDENTS.

Conducted by Leonard Dobbin, Ph.D.

All communications for this section should be addressed thus: "Corner for Students, 'The Chemist and Druggist,' 42 Cannon Street, London, E.C."

Report on February Analytical Exercise.

THE powder distributed to students on January 27 consisted of equal parts by weight of lead sulphate, hydrous calcium sulphate, and potassium sulphate. The calculated composition of such a mixture is—

Pb	22.8
Ca	7.7
K	15.0
SO_4	47.5
H_2O	7.0
	100.0

The powder also contained, as impurities, small quantities of barium and magnesium, and mere traces of iron and chlorine.

Samples of the powder were distributed to eighty students, and thirty-three reports were sent in for examination. The failures in the detection of the main constituents were :—(*a*) Metallic radicals: Lead, 5; calcium, 4; potassium, 8. (*b*) Sulphuric-acid radical, 1. Eighteen students failed to detect the barium and twenty-seven the magnesium present as impurities, while ten did not observe the evolution of water when the powder was heated in a dry test-tube.

This exercise was, on the whole, more difficult than its predecessors in the current tournament series, and no single competitor succeeded in detecting all the constituents mentioned above. Preliminary dry-way tests gave useful information both of a positive and of a negative description, and enabled several correspondents to enter upon the systematic analysis knowing that lead, barium, calcium, and potassium were almost certainly present; nevertheless, some students made next to no preliminary examination, while some omitted it altogether. We always regard such omission as a serious defect in an analysis.

The mixture required somewhat prolonged boiling with moderately concentrated hydrochloric acid to effect the solution of the lead sulphate, and even after further boiling produced no sensible diminution in the amount of insoluble matter, the barium sulphate, of which the insoluble residue virtually consisted, still contained traces of lead. Several correspondents entirely overlooked the insoluble residue at this stage, and of these the majority failed altogether to detect barium; but one or two were so satisfied by the evidence obtained from their preliminary tests that they reported it to be present even although no indications were obtainable when the ammonium-carbonate precipitate was under analysis. The proportion of insoluble residue was small, no doubt, but it was not so insignificant that, with moderately close attention, it should have wholly escaped observation. When the filtered hydrochloric-acid solution cooled, some lead chloride was deposited, but the clear liquid still contained lead in solution, and this was capable of being completely precipitated as sulphide by copious dilution with hydrogen-sulphide solution succeeded by thorough saturation of the liquid with gaseous hydrogen sulphide. As in very many similar cases, numerous students either failed to obtain any precipitate of lead sulphide at this stage or the precipitation was far from complete. This was due to the very common failure to attain sufficient dilution of the hydrochloric acid present and to secure due saturation with hydrogen sulphide. The result was the usual one, to which we so frequently refer in this column—namely, that lead passed on in solution to later stages of the analysis and was mistaken for a metal belonging to one or other of the subsequent analytical groups. When lead passes through in this way, not precipitated as sulphide, the stages at which it is most likely to obtrude itself are, as a white precipitate of hydroxide on the addition of ammonium chloride and ammonia as iron-group reagents, and as a black precipitate of sulphide on the subsequent addition of ammonium hydrosulphide. Both results are likely to be observed when the quantity of lead in solution is relatively large, but only the second when it is very small; the reason for this being that ammonia, which is not a very complete precipitant of lead, does not produce any precipitate in dilute solutions, whereas ammonium hydrosulphide produces an almost immediate darkening even in extremely dilute solutions and a black precipitate is eventually deposited.

Calcium sulphate also gave rise to some trouble. This substance dissolves pretty freely in hot dilute hydrochloric acid, but when the acid is neutralised by the addition of ammonia, part of the dissolved material is often precipitated. Such precipitation seems to have occurred in not a few cases in the hands of our correspondents, and numerous precipitates which were taken sometimes for aluminium hydroxide, sometimes for other substances, apparently consisted simply of calcium sulphate, with probably, here and there, a little admixed lead hydroxide. This behaviour of calcium sulphate is a matter to which we have also referred again and again.

Judging from the statements frequently made in the reports we receive, there appears to be considerable misapprehension among students as to the way in which chromic salts behave towards potassium hydroxide, and many incorrect inferences result therefrom. When a solution of potassium hydroxide is added, drop by drop, to a chromic solution, a bluish- or greenish-grey precipitate of chromic oxide is at first produced which (like the corresponding white precipitate of aluminium hydroxide) redissolves when excess of the reagent is added in the cold. When the green solution which is thus formed is boiled a green precipitate of chromic hydroxide is produced, provided only a slight excess of potassium hydroxide has been employed. (Aluminium hydroxide is not reprecipitated under similar conditions.) The misapprehension referred to is that cold solution of potassium hydroxide redissolves aluminium hydroxide, but not chromic hydroxide, and any correspondents who suppose this to be the case should make a point of ascertaining for themselves experimentally the true facts of the matter.

The certain identification of the small quantity of magnesium involved the removal of the last traces of calcium, as oxalate, before the test for magnesium (by means of ammonium or sodium phosphate) was applied. This was not attended to in all cases, and there is internal evidence in some reports to show that the precipitates which were taken to indicate the presence of magnesium consisted mainly of calcium phosphate.

Prizes.

The first prize for the best analysis has been awarded to:

J. Holdsworth, Ozleford Farm, Blackley, Manchester

The second prize has been awarded to:

W. T. Lunt, 102 Kyrwick's Lane, Camp Hill, Birmingham.

First Prize.—Any scientific book that is published at a price not greatly exceeding half-a-guinea may be taken as a first prize.

Second Prize.—Any scientific book which is sold for about five shillings may be taken as a second prize.

The students to whom prizes are awarded are requested to write at once to the Publisher naming the book or books they select.

Marks Awarded for Analyses.

1. *Correspondents who are unqualified:*

J. Holdsworth (1st prize)	93	Newrad	74
W. T. Lunt (2nd prize)	92	Q. E. D.	73
Nomen	91	D. Gregory	72
H. W. H.	89	Curious	72
Zincona	89	Rare Chemical	70
Aspirin	88	Student	65
Kino	84	Tyneside	62
Simili	84	Didit	61
Myron	82	Kutisol	58
Nil sine Labore	81	Onyx	54
Victory	80	Spongiopiline	49
E. Caird	76	Acol	33
A. C. S.	76	Thistle	33
Suffy	76	Sprenens	26

Correspondents who are qualified, or who have not cated that they are unqualified:

Ax	89	Virus	79
Cinamon	68	Xylem	94
Green 'Un	83		

To Correspondents.

H. T. Lunt.—The green barium flame was very plainly visible after the fairly persistent potassium flame disappeared. Had you observed the evolution of water on heating the powder in a dry test-tube, your report would have gained an easy first place.

Somen.—You describe a precipitate of calcium sulphate as insoluble in hydrochloric acid. This is not correct, since calcium sulphate dissolves to some extent in cold dilute hydrochloric acid and pretty freely in the hot moderately concentrated acid.

H. W. H.—Heating with manganese peroxide and concentrated sulphuric acid as a test for chlorides is of no avail, unless a blank test is made to ascertain that the peroxide is free from chlorides—a state of matters which is very seldom met with in commercial samples.

Zincona.—The acid fumes evolved on boiling the powder with concentrated sulphuric acid were due to the latter alone. It was not possible to be sure that the slight precipitate produced by sodium phosphate, as group reagent, indicated the presence of magnesium, unless steps had been taken to remove the last traces of calcium by means of ammonium oxalate.

Aspirin.—Study the conditions under which the precipitation of potassium as bitartrate may be made a moderately delicate reaction. The addition of tartaric acid to a solution already acidified with hydrochloric acid could not, under most ordinary circumstances, produce a precipitate of potassium bitartrate. Sodium bitartrate, and not tartaric acid, is, in any case, the correct reagent to employ.

Limill.—You must never throw away, unexamined, an insoluble residue or any other portion of a substance under analysis. You threw away barium sulphate, and failed to detect barium.

Myron.—We cannot explain the production of the metallic globules you report after fusing the powder with fusion mixture, since this operation could not, alone, reduce lead sulphate to metal.

Fil sine Labore.—You found the presence of iron not only in the ammonium chloride and ammonia precipitate which you report, but also in another precipitate which you got on adding hydrogen sulphide to the ammoniacal filtrate. The former precipitate no doubt consisted mainly of calcium sulphate with traces of ferric hydroxide, but there should have been any iron left in solution to be precipitated by hydrogen sulphide. We think the latter precipitate consisted of lead sulphide.

Victory.—The powder did not contain more than the faintest trace of manganese, and the bead reaction you observed may have been due to an insufficiently cleansed platinum wire. The systematic examination of the hydrochloric-acid solution did not reveal the presence of barium, because the traces of this metal remained, as sulphate, in the insoluble residue.

J. Caird and D. Gregory.—The dense fumes which were given off on heating the powder in a metal crucible with powdered fluorspar and concentrated sulphuric acid must either have been due to the last-named—in which case the white incrustation on a damp glass rod was an illusion—or the powdered fluorspar contained silica or a silicate. A repetition of the experiment with the fluorspar should enable you to settle the point.

Suffy.—Your report indicates that you were in doubt regarding the presence of potassium, but it does not explain why you omitted to test carefully for it at the proper stage—that is, after the removal of the other metallic radicals.

J. E. D.—The pungent odour which you perceived on heating the powder with dilute hydrochloric acid was no doubt that of this acid itself. When there is any doubt as to this point, repeat the experiment with dilute sulphuric acid, which may be boiled without yielding pungent vapours.

Curious.—The precipitate that you mistook for potassium bitartrate (which could not have been produced under the conditions stated) consisted mainly of lead chloride. Apparently you regard the solubility in hydrochloric acid of a precipitate produced by the addition of a barium salt to an unknown solution as a proof of the presence of a sulphate, since you mention this twice in your report. Test the matter with a known solution of a sulphate. Read also the reply to "Aspirin."

Student.—Although you obtained a metallic bead by heating the powder on charcoal, you did not find anything to account for this in the systematic testing for metals. Your analysis is incomplete regarding several important particulars.

Tyneside.—Read what is stated in the general remarks regarding the behaviour of chromic hydroxide towards potassium hydroxide.

Didit.—The fact that the powder did not turn black when heated with sodium hydroxide did not prove the absence of mercury compounds in general. Mercuric compounds are not blackened by that reagent.

Kutisol.—Read the first sentence of the reply to "Zincona."

Thistle.—In the solution to which you applied ammonium chloride as a test for tin, tin would not, in any ordinary circumstances, be present. It seems likely that the precipitate you actually obtained was simply lead chloride. The "few insignificant particles" which you did not examine, unfortunately contained the barium which you failed to detect.

Sprenens.—Prepare a mixture in imitation of the exercise, and endeavour to find, in your examination of it, an explanation of the errors in the report of your analysis.

Ajax.—We think the precipitate you supposed to be due to iron was really lead sulphide.

Cinnamon.—Your failure to obtain a precipitate with hydrogen sulphide in the filtrate from the lead chloride proves that the liquid contained too great concentration of hydrochloric acid, since it was quite certain to contain some lead in solution. The powder did not contain appreciable traces of strontium, and, even if such had been present, their detection in the quantity at your disposal would only have been practicable by aid of the spectroscope. The flame coloration you observed was due to calcium. Read also the reply to "H. W. H."

Green 'Un.—It was not safe to assume that the hydrogen-sulphide precipitate was due solely to lead not precipitated as chloride, and to pass it by unexamined.

Xylem.—The loss of marks that you have sustained in the course of the tournament is mainly owing to failure to detect an essential constituent in one instance, and to your reporting in several instances, either as main or as minor constituents, substances which were not present. A few marks were lost each month owing to incompleteness in the minute details of the analytical procedure. As you may readily understand, the last ten marks of the attainable hundred are the most difficult to secure.

Progress of the Tournament.

This being the fourth exercise of the tournament series, it is, no doubt, a matter of interest to the various competitors to note how the leaders stand. We therefore append the aggregate marks attained by those who, having sent in reports on all four exercises, have scores exceeding 300:

Zincona	369	Rare Chemical	328
Myron	361	Ozone	325
Xylem	360	Ajax	318
Aspirin	342	Kino	317
Virus	338		

GAZETTE.

Partnerships Dissolved.

Ashworth, J. W., and Dickey, H. J., Heaton Moor and Heaton Mersey, medical practitioners, under the style of Drs. Ashworth & Dickey.

Reynolds, C. E., Reynolds, F. D., and Danby, A. M (formerly Reynolds), Rodney Street, Liverpool, surgical-instrument makers, under the style of John Reynolds & Son.

Shadwell, L. W., and Clarke, H. E., Bedford Park and Acton Green, general medical practitioners, under the style of Clarke & Shadwell.

Bankruptcy Acts.

Receiving Order.

Davis, H. W., Grafton Street, Tottenham Court Road, and Camden Road, London, surgical-instrument maker, trading as H. & W. Davis.

Adjudications.

Craig, A. R. R., George Street, Hove, drug-store proprietor.

Moxon, A. H., St. James', New Cross, lately Devonshire Road, Forest Hill, and King Street, Great Yarmouth, registered medical practitioner.

A Message recently sent to a New Zealand chemist: "Please give the little girl a plaster for a man that a piece of wood blew off a shed and hit him in the rib."—*Punch.*

Afterthoughts on Reorganisation.

By R. Cecil Owen, B.Sc.

II.—Federation.

At the Holborn Restaurant meeting it was decided that reorganisation should take the form of federating, not the statutory Pharmaceutical Committees as was first proposed, but the local Associations. Let us see how this will work. Any given local Association will either contain a majority of panel chemists or it will not. If it does, the change from Pharmaceutical Committee to local Association is merely verbal, and will have no appreciable effect in practice; and, moreover, the argument in support of the change put forward by the mover himself, that "the local Associations must keep the Pharmaceutical Committees and the panel chemists '*under*'!" has no force. But if it does not, then indeed is the panel chemist swamped. For then his fate will be decided by a majority who do not share his lot; Insurance matters, at the conferences, will be dealt with by those for whom they have no direct interest; and this is not a situation likely to make for smooth working. In a word, Insurance business, as it affects pharmacy will have, in the long run, to be dealt with quite apart from all other pharmaceutical matters whatsoever.

It is all very well to pass resolutions (as was done at the first conference) in favour of higher tariffs for panel chemists, but apart from the consideration that under present arrangements there is no money for such a purpose, there is at least one other consideration which taken by itself is sufficient to prohibit any marked upward deviation from the present charges. We can best understand it by looking at the matter in the following way. Suppose that Insurance charges were raised considerably, so that they came near the mark desired, and so that chemists were bound to admit they were well paid—as would not doubt be the case if, *e.g.*, they received an average price of, say, a shilling for a mixture. Immediately there would arise a competition among chemists, keen in proportion to the excellence of their payments. It might take the form of providing free bottles to all patients, of offering to "send" all prescriptions, of press advertisements, or of giving away as bonuses gifts of scent, soap, tooth-powder, etc., to each person tendering an Insurance prescription—always assuming that payments were so excellent as to warrant the corresponding expenditure over such advertising. Such expenditure would be met, of course, out of the profits, and would be a charge ultimately upon the State, or, to be more exact, upon the following three parties: the taxpayer, the employer, and the employé, who would in effect be paying the price of competition among chemists—paying, *i.e.*, a portion at least of their advertising expenses. It is probable that when these advertising charges had been deducted from profits, the chemists' financial position would be little different from what it is now, and the net result would be a dead loss to the public of so much money thrown away on non-productive expenditure. It is, therefore, evident that Insurance charges are limited in an upward direction; they cannot rise above a certain point which is so fixed that beyond it advertising becomes desirable and below it, is not to be thought of. One hardly need add that this is quite as it should be, for in this way the Drug Fund is expended upon nothing beyond medicines and pharmaceutical services.

The Seventh Centenary of Roger Bacon's birth in 1214 is to be celebrated at Oxford on June 10. It is proposed to print some of his unpublished works. One volume is to deal with his medical treatises.

The Fate of "Bubbles."—Mr. Thomas J. Barratt (chairman and managing director of A. & F. Pears, Ltd.), writing to "The Times," states: "There is no femininity about 'Bubbles'; on the contrary, he is now a stalwart officer in his Majesty's Navy, and has recently called at these offices to see the portrait painted of him when a child by his grandfather, Sir John Millais."

CHEMICAL SOCIETY.

A meeting was held in Burlington House, London, W., on Thursday evening, February 19, Professor W. H. Perkin (President) in the chair. The first paper was on

"The Production of High Vacua by Means of Finely Divided Copper," by G. R. Merton, who stated that there are several methods of obtaining a high vacuum, mostly necessitating the use of liquid air. Some bodies, such as charcoal, on being bombarded by kathode rays, absorb gases to a considerable extent. He now dealt with the power possessed by finely divided copper of absorbing gases on cooling. The copper must be freshly reduced and in the finest possible state. The most effective absorption is obtained by heating the copper to about 250° C. It has been found that most gases, as well as water-vapour, are readily taken up. Helium, however, is not absorbed. That the absorption is not a chemical combination is indicated by the fact that on heating the gases are evolved. Great care must be exercised on heating the copper, as the gases are given off with considerable violence. One curious feature of the reaction is that repeated heating and cooling deprives the metal of its absorptive power. Employment of too high a temperature, or the presence of mercury-vapour, inhibits the absorption. The degree of vacuity obtained was shown by connecting a small flask containing copper to a vacuum tube. The copper was heated, and a current passed through the tube. After a few minutes the discharge showed that there was a considerable amount of air in the tube. As the flask cooled, the discharge through the tube gradually changed in character till the vacuum became so high that no current would pass. In the discussion Dr. Lowry stated that it was probable that the action only took place when the copper was in the colloidal and non-crystalline state, since 250° C. is about the annealing temperature of copper; above this temperature the metal becoming crystalline. The next paper was by Professor Brereton Baker, on

The Spitting of Silver.

The author undertook some experiments to see whether it is possible to determine if any silver oxide is formed when molten silver takes up oxygen; as much as twenty-five times the volume of gas is absorbed, and all this is given off on cooling. If the silver be melted under a layer of boron trioxide no borate of silver is formed, but if some of the molten metal be exposed and only a small quantity of the boron trioxide be present, a borate of silver is obtained.

Dr. Lowry, in the discussion, remarked on the analogy with copper, in which case there is a definite eutectic curve between the copper and the copper oxide present in the molten copper.

Other Papers.

Professor Crossley communicated a paper by himself and W. R. Pratt on "Hydroaromatic Ketones—Part 3." The chief interest in the paper was the prophecy that through these compounds it will be possible to prepare the meta-terpenes by the use of Gruinard's reaction.

A paper by G. D. M. Ross, on the "Rate of Transformation of Ammonium Cyanate in Absolute Alcohol," was communicated by Dr. Philip. The result of the experiments is to show that the reaction follows the himolecular law, and the presence of alcohol increases the rate of the change.

Outside a Church in the neighbourhood of Goswell Road, London, is a notice: "Banns of Marriage To Be Left At Mrs. Love's, Chemist, Central Street." Mrs. Love should be an alchemist.—*The Star.*

Grenada Lime-juice.—A large area on the island of Carriacon is under the cultivation of limes, and the industry is likely to assume some importance in the future. The lime-tree grows readily and fruits abundantly in this Dependency, while, so far, it is free from any serious disease.

NGLISH AND WELSH NEWS.

Subscribers are invited to send to the Editor newspapers containing news of trade interest. Please mark the items.

Brevities.

ie Huddersfield Co-operative Society reports that the ngs in the drug-department for the past quarter unted to 765*l.*, an increase on the corresponding period ast year.

Sotheby's Auction Rooms, Wellington Street, Lon- W.C., on February 17, a number of Italian pharmacy- were sold. Two well-known pharmacist antiquaries hased the greater portion.

uch damage was done to business premises in High et, Cradley Heath, last week by subsidences caused mining operations. The buildings affected include pharmacy of Mr. E. Wooldridge, chemist and drug- 87 High Street, the walls of which show ominous rks.

n February 1 the seven-year-old son of Mr. Hutchins, stant to Mr. W. Walwin, chemist and druggist, South- Street, Gloucester, was drowned through falling into river while playing on the Quay Wall. The body was recovered on February 23.

he International Congress on Plant-diseases was in- urated in Rome on February 24. It is proposed that various Governments by International Convention ll pledge themselves to institute official services of topathology in order to give warning of the presence plant-disease and to devise measures for preventing spread of the disease.

oots, Ltd., have dropped "Cash" for "The" in the ertisements and window-bills so lavishly used in con- tion with the "Regesan" word-building competition. e correspondent wonders if the discernment of insured sons in getting the "Real" chemist to dispense their scriptions has anything to do with the new designation.

"Rexallites" are, we are authoritatively informed, garious animals and, actuated by this "get-together" ling, are instituting Rexall Clubs all over the country. e last to be formed is the Border Rexall Club, which was ne at Carlisle last week, Mr. Thomas Ridley being cted the first President. This club will meet alternately Carlisle and Newcastle-on-Tyne.

The Rhyl Dramatic Society presented the popular nedy, "Dr. Wake's Patient," on February 20, in aid the funds of the North Wales Advertising Board. The formance was under the direction of Mr. P. J. Ash- d, pharmacist, who played the title-rôle "with consum- te skill," and, adds the local "Journal," "may be d to be the heart and soul of the Society and the adver- ing work upon which the popularity and success of yl depend so much."

The first poison-licence has just been granted by the uthport Town Council, and another seed-merchant has eady advertised that he will apply for a similar ivilege. The local chemists have previously opposed th success similar applications, but a change of policy s now been taken by the Watch Committee, and this position is disregarded. By a coincidence nicotine was e poison selected recently by an ex-councillor to stroy his life, but where the poison had been procured d not transpire at the inquest.

Institute of Chemistry.

The report of the Council, to be submitted at the nual meeting of the Institute on March 2, shows that ie register now contains the names of 1,204 Fellows and 0 associates, an increase of thirty-four members. he balance of accounts at the close of the year was 5*l.* 8*s.* 2*d.* more than at the beginning. The Buildings und account shows that 3,171*l.* is still needed of the 7,000*l.* which is the minimum required. The report also eals with the work of the Council, lectures, examina- ions, and other matters.

Post-graduate Lectures.

The third of the course of lectures on the "Applications of Electricity to Medical Practice," which is being given by Mr. R. S. Wright, A.M.I.E.E., in the lecture-theatre of the Pharmaceutical Society at 17 Bloomsbury Square, London, W.C., was delivered on February 24. Mr. Edmund White (President) was in the chair, and the attendance was good. This week the lecturer dealt with the practice of radiography. He began by illuminating Geisler tubes to show the effect of passing electric current through vacua, and in this connection exhibited several Crookes's tubes. The radiation in one of these tubes was being investigated by Röntgen in 1895 when he accidentally observed fluorescence in some barium platinocyanide, due, as is now well known, to the production of *x* rays. The original form of *x*-ray tube was shown and its evolution traced to the large form with vacuum regulators now required. The effect of varying degrees of exhaustion of the tubes was explained as well as the alterations that take place when the tube has been worked for a time. For keeping the tubes cool heavy metal anticathodes or metal tongs are employed, other forms of tube being water-cooled or fitted with small radiators. The two varieties of tubes now in use are "treatment" and "radiograph" tubes, the former being employed for skin-diseases. The methods of regulating the "dose" were explained. In referring to the details of practical radiography the means for protecting the operator from the *x* rays were noted. After the lecture the audience was given further demonstrations of the various tubes shown on the lecture-table.

Royalty at the London Docks.

The King and Queen and Princess Mary paid a surprise visit to the docks and warehouses of the Port of London Authority on Saturday, February 21. Commencing at the Cutler Street warehouses (where immense quantities of drugs are stored), they inspected the cigar, tobacco, tea, silk, feather, and birdskin departments, afterwards going on to the London Docks, where they were shown imposing stores of quicksilver, spices, shells, crude iodine, cinchona, and ivory. The sorting of nutmegs keenly interested Queen Mary, who insisted on trying the work herself, and took her place for the purpose at the tray side by side with one of the men. One of the most interesting items shown was a large bowl of quicksilver on which an iron weight of 56 lb. was floated. The King and Queen and their party dipped their hands in the mercury, first removing their jewellery. An inspection of the famous wine-cellars concluded a visit full of interest and enjoyment.

Parcel-post to France.

The text of an agreement between the United Kingdom and France relating to the direct exchange of parcels by parcel-post was issued on Wednesday. The provisions are generally applicable, not only to parcels between the two countries, but also to parcels sent in transit through the territory of one or other of the two countries. Parcels may be forwarded by parcel-post from the United Kingdom to France, Corsica, and Algeria up to 11 lb. weight, and from those countries to the United Kingdom up to the weight of 5 kilos. The prepayment of the postage on parcels is compulsory, except in the case of redirected parcels. The agreement was signed at Paris in November last.

Birmingham Notes.

Boots, Ltd., are advertising locally a 600*l.* competition relative to their Regesan preparations.

The sore-throat epidemic, which is exceedingly prevalent in Birmingham and district, is attributed to a mysterious germ that has not yet been identified.

Mr. H. O. Lloyd, pharmacist, of 323 Coventry Road, Birmingham, has just had his pharmacy remodelled. The interior fittings have all been replaced and a new shop-front put in. The whole of the work has been tastefully carried out by Messrs. Southall Bros. & Barclay, Ltd., Birmingham.

At the Mayoral fancy-dress ball, held last week, Sir Thomas Barclay appeared as Lord Howard of Effingham, Mr. Thomas Barclay as an Indian Prince, Dr. Feather-

stone as George Washington, Mr. W. Shakespear as Jacques Corday, Mr. A. W. Southall as an Elizabethan ancestor, Mr. Alfred Bird in diplomatic undress of the Court of George III., and Mr. Fred Barlow as a Mandarin,

Sheffield Notes.

At the annual dinner of the Sheffield Branch of the Medical Aid Association last week, it was stated that the Branch has 7,000 members, and its special temporary arrangement for dispensing sanctioned by the Commissioners.

Messrs. Eardley & Furneval, pharmaceutical chemists, Glossop Road, Broomhill, and Fulwood, are making a nice show of their tooth-paste in collapsible tubes. This firm's windows are usually daintily set out with their special lines.

The annual Sheffield Photographic Exhibition opens on March 3. The commercial exhibits are to be divided among three firms, including Mr. J. Gilbert Jackson and Boots, Ltd. For some years they have been made by one business house.

The Lord Mayor, Master-Cutler, and others have issued a joint letter asking for financial support for the Edgar Allen Institute, which was given and maintained free for the first three years by Mr. W. Edgar Allen. The Institute is one of the finest in the country for the Zander method of medico-mechanical treatment. It is under a medical director and fully trained Swedish staff. If support is not forthcoming it will be compelled to close its doors on June 30. A large photograph of the interior has appeared in the local Press.

Poison-licences.

The following have applied to their respective County Councils for licences to sell agri-horticultural poisons:

Mr. Robert Bell, ironmonger, High Street, Kettering (Northants C.C.).

E. Wooliscroft & Co., horticultural sundriesmen (Cheshire C.C.).

John Lamb & Son, grocers, Scots Gap, Cambo, Morpeth (Northumberland C.C.).

Wine-licences.

At Llanelly Brewster Sessions a wine-licence has been granted for the Station Pharmacy, Pontyberem.

A medicated-wine licence has been granted to Mr. J. C. Holton, chemist and druggist, Bridge Street, Fakenham.

At Portsmouth the application of the Timothy White Co., Ltd., chemists and druggists, has been granted for the removal of a wine-licence held by them to new premises at 63 King's Road.

Mr. H. C. Whitby, chemist and druggist, High Street, Winsford, has been granted a medicated-wine licence for new premises, on condition that the one at his old shop, which he has held since 1905, was surrendered.

The Malvern Bench have transferred the off wine-licence at Blackmore House, Malvern Wells, held by the late Mr. E. J. Clarke, chemist and druggist, from the executors to Mr. A. J. Colston, chemist and druggist.

The Bath Licensing Justices on February 20 granted the transfer of the licence for the sale of medicated wines held by Mr. J. W. Sampson, Ph.C., at 4 Cleveland Place East, Bath, to Mr. H. C. Broad, pharmacist, who has taken over the business.

Contracts.

Wandsworth Borough Council.—Burt, Boulton & Haywood, Ltd. (in lieu of Kitson's Ureka Disinfectants Co.), for an annual supply of carbolic acid.

Willesden Urban District Council.—Baiss Bros. & Stevenson, Ltd., for an annual supply of drugs and druggists' sundries at 30 per cent. off list-prices.

Hammersmith Borough Council.—Adcocks, for annual supplies: Carbolic acid, 1*s.* per gal.; carbolic powder, 1-lb. packets, 3*s.* 11*d.* per gross; sulphur candles, 15*s.* 11*d.* per gross; permanganate of potash, 1*l.* 17*s.* 11*d.* per cwt.

Lewisham Borough Council.—For annual supplies: Pryke & Palmer for permanganate of potassium at 37*s.* 11*d.* per cwt.; smoke-rockets, 4*s.* 2*d.* per doz.; Sanitas Co., Ltd., for drain-testers at 45*s.* per gross; A. C. Young & Co., for carbolic acid at 11*d.* per gal.; Adcocks, carbolic powder at 2*s.* 7*d.* per cwt.; flowers of sulphur at 7*s.* 2*d.* per cwt.; Forbes, Abbott & Lennard, Ltd., soluble sanitary fluid, 6¾*d.* per gal.; United Alkali Co., Ltd., chloros, 1*s.* 10*d.* per gal.; Formalin Hygienic Co., Ltd., formalin (Schering's), 1*s.* 3*d.* per lb.; H. E. Olby, glycerin, 1*s.* per lb.; cyllin, 3*s.* 6*d.* per gall.; Middleton Bros., izal, 3*s.* 6*d.* per gal. (less 2½ per cent.).

Guardians' Doings.

The Lambeth Guardians have ordered a supply of apparatus for testing drugs at their central drug-stores from Messrs. Baird & Tatlock, Ltd.

The Reading Guardians on February 19 appointed Mr. Cardwell as dispenser at the workhouse, at an annual salary of 115*l.* Mr. Cardwell temporarily fulfilled the duties for the past fifteen months during the illness of the late dispenser, Mr. Jones.

The Lambeth Guardians on February 19 decided to discontinue their subscription of 10*l.* 10*s.* to the Surgical-aid Society. The Clerk stated that in future persons requiring surgical appliances would have to be treated as if they were applying for ordinary relief.

The Sheffield Guardians on February 18 adopted a new scale of salaries for dispensers—viz., a minimum of 140*l.* and a maximum of 180*l.* per annum for the first assistant dispenser (instead of 130*l.* to 160*l.*), and a minimum of 100*l.* and a maximum of 140*l.* for second assistant dispenser (instead of 90*l.* to 120*l.*). A proposal to increase the salaries of Mr. Carey (first assistant dispenser) from 160*l.* to 170*l.*, and of Mr. Bailey (second assistant dispenser) from 95*l.* to 110*l.*, was defeated. Notice of motion was given for the next meeting that Mr. Bailey should have the advantage of the new scale immediately. During the discussion Mr. G. T. W. Newsholme pointed out that the demand for dispensers makes it easy to get better salaries elsewhere.

A "Rag."

The running of the last "one 'oss" tramcar at Cambridge on February 18 brought two local pharmacists into prominence. Alderman A. S. Campkin boarded the car intending to go to town, but on finding that the car was making its last trip and going to the depôt, he accompanied it there. It was rumoured that arrangements had been made for a students' "rag," but this was partly frustrated by causing the last car to run about 6.30 P.M. However, some undergraduate "raggers," whether by accident or design is not known, smashed with a handcart a window at the pharmacy in Fitzroy Square of Mr. J. Evans, President of the local Pharmaceutical Association. The damage done amounted to about 7*l.* Some of the undergraduates entered the pharmacy and apologised to Mr. Evans, but did not give their names or colleges. As a result of a "whip round" they handed Mr. Evans 16*s.* 4½*d.* The actual delinquent ran away.

Sale of Food and Drugs Acts.

The Camberwell analyst (Dr. F. L. Teed) examined fourteen drug-samples last quarter. All were genuine except an olive-oil sample containing 66 per cent. of arachis oil (vendor convicted).

The Islington analyst (Dr. F. L. Teed) reported against three out of the fifteen drug samples submitted during the last quarter of 1913. The adulterations were olive oil containing 20 per cent. of earthnut oil (vendor convicted), paregoric made with 80 instead of 60 per cent. alcohol (no action taken), and paregoric containing 0.18 per cent. of salicylic acid (cautioned by letter).

From Various Courts.

At Cardiff, on February 19, Elizabeth Martin was sentenced to three months' imprisonment in the second division for stealing scent, value 5*s.* 6*d.*, from the local branch of Boots, Ltd.

At Burnley, on February 16, a young man named Samuel Berry was fined 2*s.* 6*d.* and costs, and ordered to pay the damage (3*l.*) done by his breaking a window at the pharmacy of Mr. F. P. Pick, Ph.C., 54 St. James's Street, Burnley.

At West Ham Police Court on February 25, Archibald ristopher Triggs (30), described as a chemist's assistant, 127 Pelly Road, Plaistow, London, E., was remanded a charge of the wilful murder of Alice Amelia Hansen) by an illegal operation. It was stated that Mrs. nsen's body was found in the house attached to the op, of which an old man, a lodger, said "Mr. Chris- her" was the occupier. A detective-inspector said ground-floor of the six-roomed house presented "the pearance of a druggist's." He had taken possession of the bottles and surgical instruments found in the ce.

The blackmail charge which Josephine Princess of Thurn d Taxis brought at the Westminster Police Court against mes Henry Maur, *alias* Ernest Everett, resulted in the isoner being discharged on February 21, on the ground at the evidence was inadequate to show that defendant d anything to do with the letters demanding money th menaces. One of the principal witnesses was Mr. W. Brims, chemist and druggist, traveller for an nerican rubber company, who, it was alleged, acted as go-between" for Maur, and had fetched letters in the me of Everett from the General Post Office. All the cuments were impounded and sent to the Public osecutor.

The death of a young woman from septicæmia follow- g abortion was investigated by Dr. Wynn Westcott in e East-end of London on Wednesday. The woman d taken pil. cochia, and the chemist who supplied them s called to give evidence, which he did, explaining eir composition, great antiquity, and popularity among omen for legitimate purposes. The Coroner thereupon marked to the jury that pil. cochia is an old familiar medy of a harmless nature, and young girls buy these ings from any chemist; that purgatives in general tend produce abortion, and that it would be impossible to op the sale of innocent drugs, because they are good medies for legitimate ailments such as constipation. here was not the slightest suggestion, he added, that l. cochia had done anything to bring about abortion or ath.

IRISH NEWS.

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Brevities.

Sir Stanley Harrington, Cork, has been re-elected one the auditors of the Great Southern and Western ailway Co.

Mr. Wm. K. Young, late of Messrs. Wm. Dobbin & o., Ltd., North Street, has taken over the business rried on by Mr. Robert Mulligan, druggist, 58 Sandy ow, Belfast. Mr. Mulligan purposes emigrating to New ealand.

The correspondence regarding the examinations of the harmaceutical Society which is being conducted in the ly Press in Dublin, and to which reference was made last eek, has now veered round to chemists' hours and the ormation of an assistants' union.

Among the consignments of goods searched by the ustoms officers at Belfast under the proclamation pro- ibiting the importation of arms was a parcel for Mr. obert Cambridge, J.P., druggist, Carrickfergus. When he parcel was opened it was found to contain showcards.

Apothecaries' Hall of Ireland.

Representations have been made to the Apothecaries' Hall that many persons who have become qualified in pharmacy are anxious to proceed to a qualification in medicine, but are deterred by the prospect of having to pass a fresh Preliminary examination. At a meeting of the Governors on February 20 the matter was referred to a sub-committee to report whether a modified Preliminary examination might be instituted for persons already hold- ing certificates of the Pharmaceutical Society of Ireland or Great Britain. An extra subject will be necessary.

Guardians and Drug-supply.

Two of the dispensary doctors of the Waterford Union have complained that the drug-contractors have not filled completely a drug-order sent on February 5, with the result that much inconvenience has been caused. There are also difficulties in obtaining acknowledgment of re- turned empties. An explanation is to be demanded from the contractors.

At the meeting of the Sligo Board of Guardians on February 14 Mr. Gallagher stated that in a recent urgent case the medical officer had to obtain some tetanus serum from Mr. Boyers, chemist, Sligo, as it was required at once. Mr. Gallagher proposed a resolution, which was passed, requesting the Local Government Board in future to sanction the giving of the contract to a local firm, on the ground of convenience.

SCOTTISH NEWS.

Subscribers are invited to send to the Editor newspapers containing news of trade interest. Please mark the items.

Brevities.

Mr. Thomas Harley, chemist, Perth, delivered an inter- esting lantern-lecture on Monday evening, February 23, in the St. Andrew's Parish Church Hall on his tour last year through Canada and the United States.

The Dundee "People's Journal" publishes a portrait of "Maurice Leighton," in whose physiognomy we recognise that of Mr. W. J. Peacock, chemist and druggist, who in 1911 was President of the Dundee Chemists' Assistants' and Apprentices' Association. Mr. Peacock was appren- ticed to Messrs. Duncan, Flockhart & Co., and is still engaged as a chemist's assistant in Dundee. The occasion of the "People's Journal's" publicity is that "Maurice Leighton" has published a poem entitled "Justification: A Conception of Nature's Teaching." It is reminiscent of Omar Khayyám, and is published at 9*d*. by Messrs. Paul & Matthew, of Dundee.

Edinburgh.

The Council of the Faculty of Insurance, London, have admitted Mr. James Russell, Clerk and Treasurer of Edinburgh Insurance Committee, as a member and Fellow of their Faculty.

Mr. James L. Ewing, as Chairman of the Chamber of Commerce, presided over a meeting of the local branch of the Navy League on Tuesday, at which the "crisis in naval affairs" was considered.

Mr. R. Glode Guyer, Ph.C., was one of the croupiers at the Edinburgh Photographic Society's annual dinner last week. Councillor Inman and Dr. W. Inglis Clark, Ph.C., respectively responded to and proposed toasts during the evening.

There are about 40,000 insured women in Edinburgh and Leith. Miss Paterson, of the Scottish Insurance Commission, said recently that she thought local lady doctors are not making the most of their opportunities (only three have gone on the panel), compared with the examples of Glasgow and Dundee.

Much sensation has been created in Edinburgh owing to the arrest of Dr. Hugh Dewar, of Portobello, on Monday on a Sheriff's warrant charging him with culpable homicide arising out of the death in child- bed of Mrs. Duncan Anderson, wife of a local police constable. The arrest and the charge against a profes- sional man have produced an immense sensation, as not within the memory of the oldest police officers in the city have similar circumstances as alleged by the Crown been met with in an Edinburgh case. Dr. Dewar appeared before Sheriff-Substitute Orphoot in Edinburgh Sheriff Court on Tuesday, and was allowed out on bail of 150*l*.

At the annual general meeting of the Edinburgh Chemists' Golf Club, held at 36 York Place, the following office-bearers for the session were appointed: Captain, Mr. G. Baxter; Secretary, Mr. G. W. Mangan; and Treasurer, Mr. A. C. Baxter. Other members of the com- mittee are Messrs. A. J. Clark, A. F. Dawson, R. D. Douglas, W. Gibb, J. S. B. Heddle R. L. Munnoch, and

K. McLennan. A cordial vote of thanks to Mr. A. J. Clark, the retiring captain, was passed. Subsequently an attractive fixture-card for the season was drawn up. Golfers connected with pharmacy who think of joining the club should write to the Secretary, 84 Newington Road, Edinburgh.

Glasgow and the West.

Mr. W. L. Currie attended the funeral of the late Mr. J. W. Sutherland as representing the Council of the Pharmaceutical Society of Great Britain. Mr. A. McMillan, the Treasurer of the Glasgow and West of Scotland Chemists' Association, also attended.

Mr. Peter Irvine, Ph.C., has disposed of his interest in the business of William Wallace & Co., St. Vincent Street, Glasgow, and is now devoting himself entirely to the representation of the United Drug Co., particularly with regard to the organisation and information of Rexall Clubs, with headquarters in Liverpool.

FRENCH NEWS.

(From the "C. & D." Paris Correspondent.)

The Sale of Cocaine and Morphia.—The Paris Courts were occupied a few days ago during several sittings with a prosecution for the illicit sale of cocaine and morphia, in which six pharmacists, five druggists, and six intermediaries figured as defendants. Four of the defendants were acquitted, and the others were sentenced to fines varying from 2*l*. to 80*l*. and a month's imprisonment.

Paris Society of Pharmacy.—At the February meeting M. Léger read a paper by M. Ferdinand Roques on tincture of iodine, in the course of which it was stated that if tincture which has become acid is shaken for five minutes with an excess of iodic acid the hydriodic acid is changed into iodine. M. Bourquelot remarked that Courtot's work seems to indicate that a tincture of iodine containing 4 per cent. of potassium iodine is practically unspoilable. M. Herissey communicated the results of his researches, made in collaboration with M. Aubry, as to the biochemical synthesis of d-glucosides-z. M. Bourquelot read a communication on fermentation equilibrium, prepared jointly with M. Bridel. M. Voiry explained, in the name of M. Boyet, the interest which attaches to the research of diacetic acid in fresh urine. The meeting was closed by the chairman's statement that a vacancy exists in the list of resident members.

A First-floor Pharmacy.

One of the features of business life in the city—or rather the West-end—of Paris of recent years has been the extraordinary increase of rentals in certain fashionable shopping streets and districts, especially in the triangle of which the base is the Rue de Rivoli and the apex the Place de l'Opéra. One effect of this advance in the value of ground-floor street-frontages has been to introduce new experiments in retail premises. High-class shops may now often be found (in the district to which I allude) at the back of the courtyard, only visible after one has left the street and entered the "porte-cochère" or carriage gateway of the house. An upstairs shop is, however, still a comparative novelty, and the announcement that Messrs. Scott & Co. would open a drawing-room dispensary or pharmacy parlour on one of the upper floors of the premises in which they carry on their wholesale trade was of sufficient originality to induce me to pay a visit to the new establishment. The Rue du Mont Thabor is a comparatively narrow street lying between (and parallel with) the Rue de Rivoli and the Rue St. Honoré, just behind the Hôtel Continental and the Hôtel Meurice. The only indication of pharmacy visible from the street is Scott & Co.'s name-plate and business announcement, placed in the usual way at the side of the entrance. I walked through a first courtyard and into a second, and, guided by inscriptions and arrow-heads, finally passed a glaring "garage," and made for an open door which led into a businesslike but unluxurious staircase. So far there was nothing suggestive of high-class pharmacy. But once the first-floor landing was reached, a glass door gave a glimpse of a particularly neat and stylish retail chemist's, handsomely fitted in mahogany, with rounded-front counter, showcases and an effective wall-case, full of the well-known British and American "patents" and sundries, and (ever the distinguishing mark of the Anglo-American pharmacy in Paris) a selection of toilet-requisites, hair-brushes, the latest things in cut-glass perfumery bottles, etc. The whole brilliant with electric light (it was after nightfall), and—this was the drawing-room touch—a silver-grey plush-like floor-covering, which it seemed profanity to offer to muddy boots, but into which one sank pleasantly. English-speaking assistants, of course. While my modest purchase was being wrapped up, I looked out of the window—this is the curious sensation of an upstairs pharmacy—at the spacious courtyard surrounded by several storeys of illuminated windows, some occupied by the wholesale portion of the drug-business, others by milliners and dressmakers, where deft "midinettes fluttered to and fro between work-tables and "mannequins." That others besides myself had found their way upstairs to purchase, I noticed during my ten minutes' visit, and it seemed to me an enterprising experiment. The new pharmacy is under the management of Mr. R. M. Hardy, formerly of Dundee. Noticing one of the assistants disappear into a back room with what looked like a sponge and a sticking-plaster, I cast a glance through the door and noticed a man having his head or face bound up, evidently from a scalp wound. The practice of conveying injured persons to the nearest pharmacy is so ingrained in the Paris policeman's mind, that I could not help remarking to the salesman that I was glad to see that even two courts and a flight of stairs did not prevent the authorities giving the pharmacist a chance to play the Good Samaritan; that the police had, at any rate, found the road to this sequestered sanctum of superior dispensing. He smiled, and hastened to explain that I was rather jumping to conclusions: it was simply a man in their wholesale warehouse, who had come to grief with some cut-glass, and who was promptly attended to. Should upstairs pharmacy become the rule, I reflected, the Paris lounger would be deprived of one of his favourite amusements—that of gazing into the windows of an officine into which the victim of a street accident has been carried.

SOUTH AFRICAN NEWS.

(From "C. & D." Correspondents.)

"The Chemist and Druggist" is subscribed for and supplied weekly to all the members of the seven Chemists' Societies in British South Africa.

Transvaal.

Aerated-water Factories Combine.—Under the title of the "United Mineral-water Factories," five of the smaller makers in Pretoria have combined, with the object of "saving working expenses by concentrating their businesses and establishing a uniform quality." The object, they say, is not to put up prices.

The Disturbing Times.—"Although still under martial law," writes a correspondent, "things appear to be settling down nicely, and we hope soon to resume the more or less even tenor of our ways. Benoni is evidently the most turbulent spot on the Rand, for it is the only place still under martial law. Even with so many extra police and the Burgher forces to protect us I was unfortunate enough to have my house, which is almost centrally situated, entered by burglars, and money and jewellery to the value of about 80*l*. stolen, and that in brilliant daylight, between 4.30 and 6 p.m."

Transvaal Pharmacy Board.—The first meeting of the new (fourth) Board was held in Johannesburg on January 30. The Board is constituted as follows: Messrs. J. H. Dinwoodie and Walter Harvey (nominated by the Governor-General-in-Council), Dr. J. van Niekerk (nominated by the Transvaal Medical Council), and Messrs. B. Owen Jones, M.P.C., A. Rennie, and J. Christie (elected members). Dr. van Niekerk acted as temporary Chairman while a President for the ensuing three years was appointed. This was Mr. Owen Jones, no other one being named. He took the chair and thanked the members for the confidence they had shown in him by re-electing him for a further term. He also welcomed Messrs. Rennie and Christie, the new members, and expressed pleasure at the fact of Dr. van Niekerk having been returned as representative of the Medical Council. The existing joint secretarial and office arrangements with the Medical Council were confirmed, the Council having signified its concurrence. Mr. W. A. J. Cameron, chemist and druggist, is secretary. The application for registration of Mr. James Halley, chemist and druggist, Great Britain, was approved.

LEGAL REPORTS.

TRADE LAW.

"Patent Agency."—John Hans was, at the Clerkenwell Police Court on February 21, fined 10*l.*, and twelve guineas cost, for using the words "patent agency" in contravention of the provisions of the Patents and Designs Act, 1907. He did not call himself a "patent agent," which are the forbidden words; but the Magistrate (Mr. D'Eyncourt) said, "If ever words meant all that 'patent agent' implied, surely those words would be 'patent agency.'" Defendant is to appeal against the decision.

Medicine-stamp Acts.—At the Caerphilly Police Court on February 24, Thomas Francis Thomas, Llanbradach, was charged on two counts with exposing for sale unstamped pills liable to medicine stamp-duty. Mr. Walker (of the Solicitors' Department, Custom House, London) prosecuted. Mr. P. H. Cornell (Excise officer) proved that the articles were offered for sale, and said defendant admitted having no qualifications, he not being a registered chemist. Defendant submitted that he had no stamped articles in stock, and therefore did not require a licence. A fine of 10*s.*, including costs, was imposed in each case.

Tincture of Iodine.—At Feltham Police Court on February 23, William John Bray, chemist and druggist, Upper Teddington, was summoned by the Middlesex County Council, under Section 6 of the Sale of Food and Drugs Act, 1875, for selling tincture of iodine which contained an excess of iodine and potassium iodide. Mr. R. A. Robinson prosecuted for the Council. He informed the Magistrates that the tincture, served by an assistant—he believed the son—contained 40.8 per cent. excess of iodine and 8 per cent. of potassium iodide. Evidence as to the purchase was given, and the defendant said that, while the strength of the iodine was prescribed by the British Pharmacopœia, it was not at all unusual to vary that prescription to suit the requirements of different cases, and medical men often do so. The purchaser (a lad) said he wanted it for painting the neck, and chemists often prescribed what they thought the better strength. The increased strength could do no possible harm, and would probably do good, and there could be no detriment to the purchaser. After some questions by the Chairman, Mr. Robinson quoted High Court decisions that require British Pharmacopœia preparations to be supplied when asked for under B.P. names. The Magistrates ordered the defendant to pay the costs—16*s.* 6*d.*

Badger-hair Dispute.—In the City of London Court, before Judge Rentoul, K.C., on February 20, an action was brought by Messrs. Daney, Maguire & Co., 10 Bishopsgate Avenue, E.C., to recover 9*l.* from Mr. F. Schuster, brushmaker, 18 Smith Street, King's Road, Chelsea. Plaintiffs' solicitor said that the claim was for money advanced to the defendant. Plaintiffs were bristle-merchants, and defendant called upon them and asked them to purchase some badger-hair. Plaintiffs did not deal in badger-hair, and they were not prepared to purchase it, but under great pressure they agreed to take it and try to sell it on defendant's behalf. It was done to help the defendant. Plaintiffs paid the defendant 9*l.* as an advance on the badger-hair. The idea was that they would sell it for 12*l.*, and that the plaintiffs were to have anything they could get over 12*l.* for their profit. Plaintiffs were unable to sell the badger-hair, and they immediately asked the defendant to return the 9*l.* and take his goods away. The defendant suggested that it was an absolute sale outright for 12*l.*, and that 3*l.* was owing; hence the action. After hearing the evidence, Judge Rentoul said he thought the fairest thing to do was to give judgment for the plaintiffs for 9*l.*, and they to give the defendant the hair. Mrs. Schuster said she had no money. Judge Rentoul said, that being so, he would find for the defendant, the plaintiffs to keep the hair. It was a loose transaction. Plaintiffs had approached the defendant first, as the letters proved, and not *vice versâ*, as was opened to him. Mr. Nash, plaintiffs' solicitor, asked for leave to appeal, and questioned the decision. Judge Rentoul refused, and said he was sure that there was a sale outright at 9*l.* and as much more as the plaintiffs would have paid.

A Beecham's Pills Case.—In the City of London Court, before Sir John Paget, Bart., K.C., Deputy Judge, on February 25, the case of Beecham *v.* Morgenstern was mentioned. The action was brought by Sir Joseph Beecham, trading as Thomas Beecham, St. Helens, Lancs, against Messrs. M. Morgenstern & Co., wholesale perfumers, 59 Middlesex Street, for an injunction to restrain the defendants, their servants, or agents from supplying in their business pills not of the plaintiff's manufacture when "Beecham's Pills" were demanded. Damages amounting to 15*l.* were claimed, and plaintiff now applied for an interim injunction until the day of the trial of the action on March 24. Plaintiff alleged in the particulars that on December 8 and February 9, 11, and 22 purchases of pills were made at the defendants' premises, when Beecham's pills were specifically asked for, but pills not of the plaintiff's manufacture were supplied, no intimation being given to the purchaser that the pills so supplied were other than those demanded. Mr. F. Hinde, who appeared for the plaintiff, said that the defendants gave themselves the title of wholesale perfumers. They were really dealers in drugs, pills, and all sorts of things. The action was for an injunction for passing-off pills not those of the plaintiff as Beecham's pills. He had an affidavit to put before the Court to show that on December 8 one Charles Gervase Lilley visited the defendants' shop and asked for a pennyworth of Beecham's pills. He was served by a woman who was behind the counter then, and whom they knew to be Miss Morgenstern, who had been fined in the Police Court for the same offence before. He was supplied by her with pills which were not Beecham's pills. The Deputy Judge: Were they labelled?—Mr. Hinde said they were not. Beecham's pills were asked for, and pills were given without any label. On February 9 Lilley went again, and the same thing took place, except that then a man served, and not a woman. On February 11 exactly the same circumstances were repeated. Upon that the plaintiff's solicitors wrote to the defendants, whose solicitors replied denying knowledge of the substitution. The Deputy Judge asked if the plaintiff had had the pills sold by the defendant analysed. Mr. Hinde replied that they had not. Their inspector saw the box, and knew it was not their packing. On February 19 another purchase was made by a Mrs. Quintan, who asked for twopennyworth of Beecham's pills. The pills supplied were not Beecham's pills. He asked for an interim injunction until the trial. The Deputy Judge granted the application, and said that the costs would be dealt with at the trial.

High Court Cases.

Unless when otherwise stated these cases have been heard in the High Court of Justice, London.

COTTON-DYE PATENT.—JUDGMENT.

In the Chancery Division on February 24, Mr. Justice Sargant delivered his reserved judgment in the action brought by the Actien-Gesellschaft für Anilin-Fabrikation, Berlin, and the Mersey Chemical Co., Ltd., against Levinstein, Ltd., Manchester, to restrain an alleged infringement of patent No. 1151 of 1900, granted to Charles Denton Abel, as communicatee of the Berlin company, for the manufacture from meta-dinitro phenol of a black sulphur dye for directly colouring cotton. The hearing of the case was reported in the *C. & D.*, beginning with the issue of January 17, p. 141.

His Lordship said that plaintiffs' patent having expired during the hearing of the action, which lasted eleven days, he could not in any event grant an injunction, but merely an inquiry as to damages. The action was one of very great importance, and would go to a higher tribunal, whatever the present result might be. The proceedings arose out of a previous action by the Vidal Co. against the defendants, in which the defendants, although unsuccessful in the lower court, won in the Court of Appeal on matters which had nothing to do with infringement, but as to the definiteness of the specification. The importance of the plaintiffs' invention was that they did 90 per cent. of the black-dye trade in this country. In the plaintiffs' patent the boiling process had been substituted for the melting process, and although this displayed no great resource or invention, it was a definite step of great commercial advantage and value, and constituted sufficient subject-matter to support a patent in this country. On the allegation of insufficiency of description, he found in favour of the plaintiffs. With regard to infringement, his Lordship found that the defendants' process differed in three respects from that of the plaintiffs. The proportion of the three ingredients varied, there was a difference in the period of boiling, and defendants substituted sodium dinitro phenol for dinitro phenol. The question was whether these were sufficient to avoid infringement. He did not think that the variation in time and proportions was sufficient to make it a substantially different process

from that of the plaintiffs, but the third variation was much more serious, and on that he held that the defendants had not been shown to be infringing the plaintiffs' patent at the present time, or to have infringed it within six years of the issue of the writ.

The action was accordingly dismissed.

Sale of Food and Drugs Acts.

White Pepper.

At the Liverpool Police Court on Wednesday, February 25, Albert Sanders Morrish, wholesale drysalter, Duke Street, was summoned for selling as white pepper a commodity containing 15 per cent. of the husks of black pepper.

Mr. Rudd stated that he appeared for the grinders of the pepper, and his clients were prepared to accept full responsibility and to allow their names to be substituted in lieu of Morrish.

The Stipendiary Magistrate (Mr. Stuart Deacon) said he must take the case as it was brought before the Court.

Mr. Watkins, who was instructed by Mr. Morrish, then intimated that Mr. Rudd would undertake the defence.

Mr. Stuart Deacon remarked that a pepper case came before him a fortnight ago, and he was asked to state a case. He asked what had happened with regard to that case.

Mr. Duder (prosecuting) replied that he did not think his Worship had had any written notice of it. He rather thought that it had been withdrawn. Proceeding to state the facts of the present case, Mr. Duder pointed out that that morning's newspaper quotations were 8½*d.* for white pepper, and something under 5*d.* for black pepper, so that the person who purchased the latter received a very different article from the first.

Inspector Quinton was called by Mr. Duder, and stated that on December 11 he visited the defendant's premises in Duke Street and asked for a case of white pepper. He was handed a case containing twenty-six small drums, which were labelled genuine white pepper. Witness gave defendants notice that he was going to have the sample analysed by the public analyst.

Mr. Henry Roberts, public analyst, deposed to receiving the sample. He analysed it and found it contained not less than 15 per cent. of the husks of black pepper. Some of them had been partially bleached, and the sample was also coloured with turmeric powder. Bleached pepper was the ripe fruit of a particular shrub grown in the East Indies. The corns were gathered before they were quite ripe, and allowed to ferment. Then the native rubbed them with his hands to remove the outer husk, producing white pepper. The latter could also be obtained by decorticating the corns through machinery. Out of scores of samples of white pepper witness had analysed, he had never discovered more than 2 per cent. of black-pepper husks, and he thought that amount might be allowed as reasonable.

At this point Mr. Rudd raised an objection to the analyst's certificate. He submitted that the latter should have set forth all the ingredients in the sample. His (Mr. Rudd's) contention was that there was no turmeric-powder in the pepper, and though the analyst had not said so in his certificate he alleged in his evidence that it was. He had set forth a statement of fact in his evidence that turmeric-powder was present, which made his certificate bad.

Mr. Duder, in reply, argued that the only foreign ingredient was the husks of black pepper. Turmeric-powder was not prejudicial to the purchaser, and, he argued, was not a foreign ingredient.

The Stipendiary Magistrate : Surely a certificate ought to set out all the foreign ingredients?

Mr. Duder : I submit that it is not a foreign ingredient.

The Stipendiary Magistrate : But the witness has committed himself to the statement that this analysis contains something which is not pepper, and one would assume that that substance was a foreign ingredient. He was inclined to think at the moment that the certificate was bad, but he would give Mr. Duder an opportunity of consulting the authorities on the legal position.

The case was therefore adjourned for seven days with that object.

LIMITED COMPANIES.

New Companies Registered.

P.C. means Private Company and R.O. Registered Office.

Ovoleo Drug Co., Ltd. (P.C.).—Capital 20,000*l.*, in 1*l.* shares. Objects: To take over the business carried on by F. M. Alexander, as the "Ovoleo Drug Co.," at Fairfield Road, Bow, E., and to carry on the business of wholesale and retail druggists, drysalters, oil and colour men, etc. The first directors are H. E. de Pury, P. Bates, and N. B. Alexander.

Kraska Co., Ltd. (P.C.).—Capital 2,500*l.*, in 1*l.* shares. Objects: To take over the business of a manufacturer of liquid nail-polishes and manicurists' requisites, carried on by M. Peety at 7 Blenheim Street, Bond Street, London, W., and at Paris as the "Kraska Co." The first directors are M. Peety and F. M. R. Macneill. Qualification, 100*l.* R.O., as above.

Gypo, Ltd. (P.C.).—Capital 1,000*l.*, in 1*l.* shares. Objects: To carry on the business of manufacturing chemists, druggists, drysalters, oil and colour men, manufacturers of and dealers in pharmaceutical and other preparations, etc., to acquire the business carried on at 108 West Ferry Road, Millwall, by P. M. Watts, together with all trade-marks (if any) and the trade-name of "Gypo." P. M. Watts is permanent governing director. R.O., 22 Billiter Street, London, E.C.

Caustic Soda, Ltd.—Capital 200,000*l.*, in 125,000 7 per cent. preference shares of 1*l.* each, and 150,000 ordinary shares of 10*s.* each. Objects: To carry on the business of manufacturers of and dealers in chemicals, drugs, salt, and chemical products; also to acquire the British patent rights of Carter White (No. 1,935 of 1913), and for that purpose to enter into an agreement with the First Syndicate, Ltd. Secretary (*pro tem.*), C. T. O'Callaghan. R.O., 30 Great James Street, Bedford Row, London, W.C.

Company News.

Lever Bros.—The profit on last year's trading was 988,238*l.*

Colombo Pharmacy Co., Ltd.—The first annual report for the year ended September 30, 1913, shows a balance of net profit of Rs. 8,670.91. The directors recommend the payment of a dividend of 10 per cent.

Rectification of Register.—By notice gazetted on February 6, the following joint-stock companies have been removed from the register at Somerset House: Lanolin Manufacturing Co., Ltd.; Maya Bulgare, Ltd.; Remedies, Ltd.

Notices of Receiverships.—The following have been filed: *Consol Automatic Aerators, Ltd.*—T. G. Mellors, 33 St. Swithin's Lane, E.C., receiver and manager. *Glyn Silica Co., Ltd.*—F. J. Harper, Shrewsbury, receiver. *Harvey Electro Chemical Co., Ltd.*—D. L. Honeyman, 18 St. Swithin's Lane, E.C., receiver and manager.

Eastern Chemical Co., Ltd.—The report to December 31 last states that good progress has been made in the erection of the company's works, which the managing agents in Bombay advise they expect will be ready to start producing by the end of March. Accordingly, immediately after the general meeting the chairman (Mr. H. N. Morris) proposes to leave for Bombay.

International Sponge Importers, Ltd.—The report of the directors for 1913 shows net profit of 8,187*l.* for the year, the gross profit being 32,493*l.* The issued capital consists of 125,000*l.*, in 6 per cent. preference shares (7,500*l.* dividend on which has been paid), and 156,438*l.* in ordinary shares, but no dividend is paid on these this year. A balance of 1,240*l.* is carried forward.

A. Millar & Co., Ltd.—The report for the year ended November 30, 1913, states that, after making due provision for bad debts, depreciation of premises, machinery, etc., and directors' fees, the net profit, including the balance of 2,106*l.* brought forward from 1912, amounts to 9,336*l.* An interim dividend at the rate of 5 per cent. per annum on the preference and ordinary shares was paid last July, amounting, less income-tax, to 3,178*l.*, leaving a balance of 6,158*l.* A final dividend on the preference shares of 5 per cent., less income-tax, 1,412*l.*, was paid in January last. There remains a sum of 4,745*l.*, out of which the directors recommend the payment of a final dividend, less income-tax, on the ordinary shares at the rate of 7 per cent. per annum, absorbing 2,471*l.*, leaving to be carried forward 2,274*l.* The annual meeting was held at Dublin on February 19, when the above report was unanimously adopted, and the retiring directors (Messrs. W. de C. Millar and R. G. Tomlinson) were re-elected.

DEED OF ARRANGEMENT.

Chambers, William Banks, 11 High Street, Stroud, Glos., Chemist.—Trustee: J. S. Dudbridge, Stroud, I.A. Dated, February 13; filed, February 20. Secured creditors, 315*l.*; liabilities unsecured, 356*l.*; estimated net assets, 751*l.* The creditors include: Corbyn, Stacey & Co., Ltd. (18*l.*); F. S. Cleaver & Sons, Ltd. (12*l.*); Evans Sons Lescher & Webb, Ltd. (14*l.*); J. Grossmith, Son & Co. (7*l.*); Jos. Thorley, Ltd. (7*l.*); Warrick Bros., Ltd. (5*l.*); Salutaris Water Co., Ltd. (10*l.*); Sangers (18*l.*); Vinolia Co., Ltd., Bebington (8*l.*); Wm. Cooper & Nephews, Berkhamsted (6*l.*); Cupal, Ltd., Blackburn (9*l.*); Albert Browne, Ltd., Leicester (10*l.*); Blyton, Astley & Co., Manchester (15*l.*); Peake, Snow & Son, Sleaford (315*l.*).

BUSINESS CHANGES.

Authenticated information for this section will be received by the Editor, and published, if not in the nature of advertisement.

Boots, Ltd., are opening a new branch at Watford, Herts.

The City Drug Co. have announced that they are giving up the business they have carried on at 169A Woodhouse Lane, Leeds. The stock, etc., has been disposed of by auction.

Mr. J. R. Hebditch, pharmacist, 1 Hall Gate, Doncaster, has purchased the prescription-records for spectacles and eye-glasses supplied by Mr. F. Burdett, late of French Gate, Doncaster.

The business of the late Mr. H. Paget Matthews, chemist, 38 George Street, Croydon, has been purchased by Boots, Cash Chemists (Southern), Ltd., who are to refit the shop on their characteristic lines.

Messrs. Hart & Co., chemists, 7 Sadlergate, Derby, have taken extensive premises at 38 Cornmarket, which are being completely refitted by Southall Bros. & Barclay, Ltd., Birmingham. The alterations include an up-to-date shop-front.

The factory and offices of Edwards' "Harlene" Co. will be removed after March 25 to 20-26 Lamb's Conduit Street, London, W.C., the present premises at 104 High Holborn, W.C., having become wholly inadequate to the demands of the business.

Mr. W. B. Fitch, pharmacist, late dispenser to St. Bartholomew's Hospital, Rochester, has taken premises at 143 High Street, Rochester, for a pharmacy, which Messrs. Ruddick & Co., 262 Old Street, London, E.C., are fitting in oak throughout.

PERSONALITIES.

Authenticated information for this section will be received by the Editor, and published, if not in the nature of advertisement.

Mr. C. W. Martin, of Messrs. S. Maw, Son & Sons, is, we are glad to say, recovering from his serious illness.

Mr. J. W. Golighty, chemist and druggist, Pudsey, has been selected a Vice-President of the West Riding (Yorks) Federated Chambers of Trade.

Bro. G. W. Kenney, chemist and druggist, 111 Canterbury Street, Gillingham, was installed W.M. of the Rochester Lodge of Freemasons (3,494) on February 18.

Mr. Charles Hugh Clarke, M.Sc., son of Mr. C. H. Clarke, dispensing chemist, Chepstow, has been awarded the degree of Doctor of Science by the University of Bristol.

A Meeting will be held at Anderton's Hotel, Fleet Street, London, on Friday, March 6, at 6 p.m., to consider a proposal to give a complimentary dinner to Mr. Harry Hickey in celebration of his record of twenty-five years on the road.

Mr. J. H. Miles, the International and Leicester Rugby football-player, who represents Messrs. Corbyn, Stacey & Co., Ltd., in the West of England, has again been invited to referee the International match between France and Wales at Swansea on March 2.

Mr. Charles Brookes, pharmacist, of the American Drug Supply Co., 24 Orange Street, London, W.C., is the subject of a column-length appreciative article in the "Illustrated Western Weekly News" for February 21 as one of the "Westcountrymen in London."

Mr. Charles J. Lynn, secretary and general manager to Messrs. Eli Lilly & Co., manufacturing pharmaceutical chemists, Indianapolis, U.S.A., is now in London beginning a long business tour in Europe on behalf of his firm. Mrs. Lynn accompanies him, and they will be leaving for the Continent shortly.

Mr. John Morgan Richards has published this week, through John Hogg and under the title "Almost Fairyland," personal notes concerning the Isle of Wight culled from forty years' residence there. It is a well-illustrated and chatty 8vo volume of 184 pages, which promises entertaining reading.

Mr. J. E. Levin, chemist and druggist, Turffontein, Johannesburg, has been in London this week preparatory to sailing for the United States, where he expects to make a sojourn of a few months. Mr. Levin has been in the Transvaal many years, and passed the Minor examination in 1898. He has recently disposed of his business in Turffontein.

The late Mr. Walter Murton Holmes, Ph.C., Sutton, was a native of Faversham, and after serving his apprenticeship in Ramsgate was for some time in Bell's, Oxford Street, London, before starting in business in Pimlico. Subsequently he removed to Belgrave Mansions, Grosvenor Gardens, and in 1904 took over the business of Mr. Utton Blythe at Sutton.

The funeral of Alderman Alfred Edwards Evans, chemist and druggist, Brynmawr, whose death we reported last week (p. 44), took place on February 21. Mr. Evans was a native of Caerphilly, and was educated at Bristol. He was Chairman of the first Brynmawr District Council, and represented his district on the Brecon County Council. He was elected to the aldermanic bench in 1905.

The Senatus Academicus of the University of Edinburgh have awarded the Cameron Prize, which is given for "highly important and valuable additions to practical therapeutics," to Professor Paul Ehrlich, Director of the Royal Institution for Experimental Therapeutics, Frankfort, in recognition of his discovery of salvarsan, of his researches on numerous synthetic organic compounds of arsenic, and of his important work on immunity.

BIRTHS.

Authenticated notices are inserted without charge.

Johnson.—At 6 Grange Road, Newburn-on-Tyne, on February 14, the wife of Herbert Johnson, pharmacist, of a daughter.

Kelly.—At 62 Blackford Avenue, Edinburgh, on February 21, the wife of Albert Edward Kelly, pharmacist, of a son.

DEATHS.

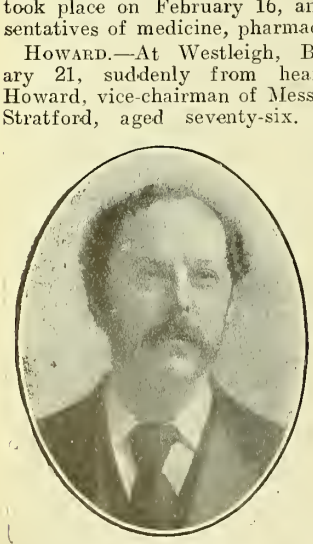
Authenticated notices are inserted without charge.

Chater.—At a Leicester nursing-home, on February 20, Mr. Matthew Taylor Chater, chemist and druggist, aged seventy-three. He was the sole survivor of the Watford Chater family, passed the Modified examination in 1869, and was connected with the chemist's business founded in High Street, Watford, by Mr. Jonathan Chater in 1837. With his brother, Mr. E. M. Chater, he carried on the pharmacy under the style of "E. M. & M. T. Chater" for many years. Mr. E. M. Chater died about four years ago, his memory being perpetuated locally in the Chater Schools, declared open just before his death. Mr. M. T. Chater was unmarried, and as his brother's three sons passed away before their father, he was the last of the line. The business, after his brother's death, was kept in the family for a short time for the sake of the old foreman, who had been employed by the brothers for over forty years, but it was afterwards disposed of to Messrs.

A. W. and D. W. E. Barker. Mr. Chater was interred in the family grave in Watford Cemetery on February 25, when a number of local tradesmen attended to pay tribute to his memory. The Rev. A. M. Ritchie, pastor of Beechen Grove Baptist Church, with which the Chater family were prominently identified—Mr. E. M. Chater married the widow of a former pastor—officiated, and a number of wreaths were also sent. Mr. M. T. Chater had been interested in the work of the Beechen Grove Baptist Church, Watford, acting as organist for over twenty years.

Ellwood.—At Leominster, recently, Mr. Michael John Ellwood, chemist and druggist, aged seventy-one. The passing of Mr. Ellwood recalls an interesting chapter in pharmaceutical history which is associated with the life and work of Sir Joseph Swan, Newcastle-on-Tyne. Mr. Ellwood belonged to an old Westmoreland family, and his father was manager of Spooner & Attwood's bank in London when Michael was born in February 1843. After his education in Norwood, Michael was apprenticed to Messrs. Mawson & Swan, chemists, Newcastle-on-Tyne. At that time Joseph Swan was engaged in the researches which ultimately led up to his invention of the electric glow lamp. Mr. Ellwood entered on his apprenticeship along with Thomas Barclay, and the two became very close friends. The employer of the time and the fellow-apprentice have lived to become Knights of the Realm. After his apprenticeship Mr. Ellwood was for some time with a chemist in Stourbridge, and from there went to Messrs. Thomas & William Southall, chemists, Birmingham, where he was preceded by Thomas Barclay by a few months. While in Birmingham Mr. Ellwood married, and in 1868 went back to Newcastle to take part in the business as well as assist Swan in his researches. In May 1869 Mr. Ellwood passed the Minor examination with a view of commencing business on his own account, and early in 1870 he got the opportunity by purchasing the business in Draper's Lane, Leominster, which was founded by Messrs. Southall. This latterly has been carried on as W. Ellwood & Son, Mr. William Mark Ellwood, chemist and druggist, having joined him in it. Mr. Ellwood long served the town as Councillor, and in 1881 was elected Mayor, serving for two terms. He was also a Magistrate and an ardent Freemason. For many years Mr. Ellwood had an interest in the "Leominster News," the editorship and managership of which he made a hobby. The funeral took place on February 16, and was attended by representatives of medicine, pharmacy, and public bodies.

Howard.—At Westleigh, Bickley, Kent, on February 21, suddenly from heart-failure, Mr. Theodore Howard, vice-chairman of Messrs. Howards & Sons, Ltd., Stratford, aged seventy-six. Mr. Howard was the third son of Robert Howard, F.C.S., son of Luke Howard, F.R.S., who joined the business of Howards & Sons at Stratford. His two elder brothers, the late Colonel Samuel Lloyd Howard, C.B., and Mr. David Howard, F.I.C., F.C.S., were in the business before he joined it in 1871, shortly after the death of his father. Prior to that Mr. Theodore Howard had several years' experience as an Italian merchant. From 1871 until a few years ago he took an active interest in the conduct of the business, particularly on the commercial side, and attended 'Change regularly. Mr. Howard was highly esteemed by all who came in contact with him. He is survived by Mrs. Howard and five daughters. The funeral took place at St. Luke's Cemetery, Bromley, on Wednesday after a service at Christ's Church, Chislehurst.



Mr. Theodore Howard.

It is interesting to note that five direct representatives of Luke Howard still remain in the business—namely, Mr. David Howard, his grandson, with his two sons, Mr. D. Lloyd Howard and Mr. Bernard F. Howard; Mr. Geoffrey E. Howard, son of Mr. Eliot Howard, grandson of Robert Howard, and great-grandson of Luke Howard; Mr. Alfred G. Howard, F.C.S., son of Mr. Joseph Howard, M.P., grandson of John Eliot Howard, F.R.S., and great-grandson of Luke Howard.

Hill.—At Moss, near Doncaster, on February 12, Mr. Robert Kelsey Hill, chemist and druggist, aged eighty. Mr. Hill retired about twenty years ago from business at Thornhill, of which place he was a native, to take a farm at Moss.

Langley.—At Sheffield, on February 19, Mr. Batty Langley, aged eighty. Deceased was formerly a member of Parliament for the Attercliffe Division of Sheffield, and during that time was well known to pharmacists as the M.P. who blocked the Pharmacy Bill in 1903 on account of the company clauses. He maintained his opposition during several Sessions of Parliament in spite of the skilful arguments brought to bear upon him by the chemists of Sheffield. The Bill was ultimately withdrawn, a provision regarding the regulation of company pharmacy being incorporated in the Poisons and Pharmacy Act, 1908.

Sanderson.—On February 16, after a long and severe illness, Mr. Edward Sanderson, North Street, Crowland, Lincs, aged sixty-four. Mr. Sanderson had carried on a retail drug-business in the town for many years. He was warden at the parish church for thirteen years. Mr. Sanderson was born in the house in which he died, and had lived in it all his life.

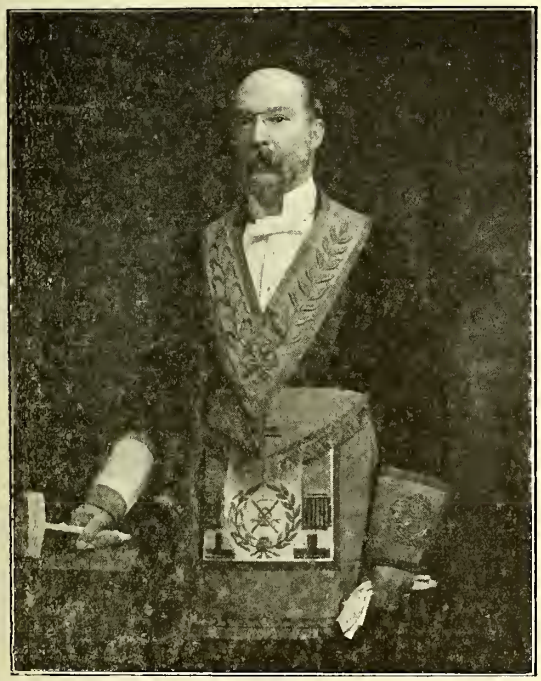
The late Mr. Sudlow.

A MEMORIAL service preparatory to the burial of the late Robert Clay Sudlow was conducted by the Rev. Hugh P. Young in the West Kensington Congregational Church, Castledown Road, W. (of which Mr. Sudlow was a deacon), on Saturday, February 21, at 1.30 P.M. It was largely attended by representative Freemasons and members of Messrs. Burroughs Wellcome & Co.'s staff. More than a hundred Freemasons were present, the Grand Lodge of England being specially represented by the President of the Board of General Purposes (Mr. Alfred F. Robbins), the Grand Secretary (Sir Edward Letchworth, F.S.A.), and the President of the Board of Benevolence (Mr. James Stephens), while there were also present Sir Walter Vaughan Morgan, Bart., and Sir William Lancaster, Past Grand Treasurers, and Sir James Szlumper, Past Grand Deacon and Worshipful Master of the Jubilee Masters' Lodge, of which Mr. Sudlow was a Past Master and Assistant Secretary. The Emulation Lodge of Improvement (of the committee of which Mr. Sudlow had been the senior member for over a quarter of a century), the Eastes Lodge, the Bank of England Lodge, and other Masonic bodies with which he had been associated also were represented, including Major Badham, Colonel C. E. Cassal, V.D., F.I.C., Mr. A. L. Collins, Mr. A. E. Holden (Fairchild Bros. & Foster), Messrs. George Rankin, J. H. Jenks, Angus Scott, and Mr. Tivadar Nachez. Among those present from Messrs. Burroughs Wellcome & Co. were Mr. G. E. Pearson, general manager; Mr. J. Collett Smith and Mr. E. Linstead, managerial staff; all departmental heads of the head office; Mr. F. H. Carr, F.I.C., Mr. F. H. Lees, F.I.C., and all departmental heads of the Wellcome Chemical-works; Dr. F. B. Power, Wellcome Chemical Research Laboratories; Dr. H. H. Dale and Dr. Sudmersen, Wellcome Physiological Research Laboratories. The personal friends included Mr. P. J. Rutland, J.P., Mr. A. Pocock, Mr. Frank Hughes, Mr. Peter MacEwan, and many others. The service was simple and deeply impressive, and when Mr. Young, in a very brief address after the reading of Scripture, spoke of Mr. Sudlow as "a great man with the heart of a little child," those who knew Mr. Sudlow felt that no words could have better expressed what he was;

the references to his work in the Church were a surprise to those who did not know how much he had been engaged in the furtherance of its interests. After the Benediction, Mr. Robbins led the Masonic brethren in laying a sprig of acacia upon the bier, after which the coffin was carried out and conveyed to the South Metropolitan Cemetery, Lower Norwood, where the interment took place, Mr. Young again officiating. There were many beautiful floral tributes from relatives, Mr. Sudlow's late colleagues and business friends, and the Masonic lodges. It rarely happens that any man connected with manufacturing pharmacy attains such eminence in the Masonic craft as Robert Clay Sudlow did, and we append an appreciation of him in that regard by Bro. A. E. Holden, Past-Master of Columbia Lodge, of which Mr. Henry S. Wellcome is also a Past-Master. Mr. Wellcome's absence in the Southern Soudan has prevented anything except cabled messages being received from him, and one of the last was of good cheer to Mr. Sudlow: it was received by him the day before he died. Mr. Holden writes:

By the death of W. Bro. Robert Clay Sudlow Freemasonry has lost one of its most able and enthusiastic exponents.

Bro. Sudlow was P.G.D. of the Grand Lodge of England, Past-Master of the Jubilee Masters' Lodge, and Assistant



W. Bro. Robert Clay Sudlow.

Secretary, Founder and first W.M. in 1882 of the Eastes Lodge, and Master for the second time in 1912; a member of the Bank of England, Clapham, Columbia, Galen, Unions, and many other Lodges. He was exalted in the Royal Middlesex Chapter; first Z. of the Columbia Chapter; a member of the Old King's Arms Chapter; advanced in the Hiram Mark Lodge, of which he passed the Chair; senior member of the Committee of the Emulation Lodge of Improvement, in which position he performed a great service to the craft and made a great name for himself.

Bro Sudlow was a great disciplinarian, little slipping his eye or ear; he always insisted on the work being properly done with kindly severity which at times was other than pleasant to the corrected brother, though always for his good. It might almost be said that Sudlow and Emulation are synonymous terms. The good work Bro. Sudlow did for the Emulation Lodge of Improvement will long live after him, and his name will live and dwell in the hearts of his brother Masons for many years to come. His presence at a Masonic gathering, his knowledge of the ritual, and his strength of character were always felt; his was the master Masonic mind.

Bro. Sudlow, being associated with pharmaceutical affairs, took an interest in Masons who are pharmacists, especially initiates and those who showed an inclination and a desire to advance in the craft and take office. While strong, firm, and a strict disciplinarian in Masonic work, Bro. Sudlow was always a leading spirit at the banquets and other gatherings; he was a good after-dinner speaker, would give and take in the true English fashion, and, like a healthy and cheerful youth, was ever ready for fun and amusement, into which he entered with the same zest as he carried out Masonic duties. He will be missed.

The photograph of Mr. Sudlow, which we reproduce, shows him in the insignia of Past Assistant Grand Director of Ceremonies. Since then he was advanced on two occasions, and at the time of his death held the rank of Past Grand Deacon

TRADE NOTES.

Thermos Flasks to retail at 2*s.* 6*d.* are advertised in this issue by Thermos, Ltd., 8 Long Lane, Aldersgate Street, London, E.C.

Cyagol or Guaiacol chlor.-iodid. is being advertised in this issue by Messrs. Burgoyne, Burbidges & Co., Coleman Street, London, E.C. It is a general and specific tonic, and is also ordered under the synonym "Mist. G.C.I."

Ess. Viotto, for the hands, is a special line made by Messrs. H. Bronnley & Co., Ltd., Acton Vale, London, W., which is being introduced to the public. Specimen advertisements are reproduced in the company's announcement in this number.

Fenolin.—Messrs. Hall, Foster & Co., Ltd., manufacturing chemists, Elswick Court, Newcastle-on-Tyne, advertise their Fenolin fluid and vaporiser in this issue. These are employed in cases of whooping-cough and croup. The trade prices of the products are given in the advertisement.

Water-glass.—The method of preserving eggs by means of water-glass is one which the public like, and it is increasing in popularity yearly. Messrs. Tomlinson & Hayward, Ltd., Lincoln, devote their advertisement in this issue to indicating the special position the company occupies in regard to the supply of packed water-glass in a suitable manner for sale by chemists.

Eye Medicament.—Tabloid ophthalmic zinc sulphate compound is a new product of Messrs. Burroughs Wellcome & Co., Snow Hill Buildings, London, E.C. It consists of zinc sulphate gr. $\frac{1}{500}$, boric acid gr. $\frac{1}{20}$, tincture of opium $\mathfrak{m}$ $\frac{1}{15}$, and epinine gr. $\frac{1}{10}$, combining the astringent, styptic, antiseptic, and analgesic properties of these remedies. The product is sent out in tubes of twelve.

Koh-i-Noor tooth-brushes are manufactured on a system so that three definite grades of stiffness of bristles are obtainable, and the makers assure purchasers that it is impossible to pull out the bristles even by force. The Koh-i-Noor tooth-brushes are to be advertised in the public Press. The makers announce in this issue that they are prepared to supply through wholesale houses a sample case of brushes and showcards.

Tritonique.—This hair-tonic is a special preparation of Messrs. Steel & Marsh, 6 Milsom Street, Bath, and although only introduced in 1911 has met with remarkable success. In the first two years and nine months nearly 40,000 bottles of Tritonique have been sold, and over 5,000 testimonials received. The lotion is non-greasy, and is employed as a daily dressing. It sells retail in bottles at 1*s.*, 2*s.* 6*d.*, 4*s.*, and 5*s.* 6*d.* Special agency terms are granted to chemists willing to take up the sale.

Merck's Reagents are in future to be sent out to English-speaking countries labelled in English; hitherto Latin labels only have been used. The labels used for reagents that are of a poisonous nature are either printed in red on a light azure ground with the word "Poison," or in white letters on a black ground, again with the word "Poison." All these reagents conform to the stringent standards laid down in "Chemical Reagents: Their Purity and Tests," and the impurities from which they are guaranteed to be free are mentioned on each label.

Blood-purifying Drops.—A blood-purifier under this title, in concentrated form, is placed on the market by W. B. Cartwright, Ltd., Rawdon, near Leeds. The components are ammonio-citrate of iron, potassium iodide, sarsaparilla, and cascara sagrada, and the dose is from twenty drops to half a teaspoonful. The remedy is thus non-secret, and can be sold by chemists without being stamped. It is packed in round cartons, and the retailer is supplied with showcards and window-bills. The concentrated form should appeal to a considerable section of the public.

Denture-boxes.—The Odol Chemical-works, 59-63 Park Street, Southwark, London, S.E., have produced a new denture-box which is not fragile as ordinary cardboard boxes made for dentures sometimes are. The strength of the Odol one is due in part to the fact that a piece of cardboard is fixed inside to form an arch within which the denture is placed. This is a simple yet clever idea, giving strength to the box and shelter to the denture. The company supply these boxes at a lower rate than boxes of the same size usually cost, and application for them should be made to the above address.

No-Germo is a new antiseptic remedy discovered by Gertrude Lady Decies and sold at 2*s.* 3*d.* The manufacturers are No-Germo, Ltd., 27 Charterhouse Square, London, E.C., which is prepared to supply advertising literature. No-Germo is given in the treatment of cold, influenza, hay-fever, headache, eczema, and other skin diseases, rheumatism and insect bites and stings. It has also given relief in stubborn cases of asthma. An advertising campaign in the lay Press is being started, so that a demand from best-class customers may be expected, which chemists should anticipate or be prepared for.

Optochin Hydrochlor.—Messrs. Widenmann, Broicher & Co., Ltd., 1 Fenchurch Avenue, London, E.C., have sent us a sample of optochin, a new remedy which is being employed in pneumonia and corneal ulcers of pneumococcic origin. Optochin is ethyl-hydrocupreine and is administered in powder form in doses of 1½ to 7½ grains. It has been administered up to 169 grains in twenty-four hours, showing that the remedy is a safe one, although the single dose of 22½ grains should not be exceeded. The therapeutic action is a bactericidal one specially directed to the pneumococci. In the case of corneal ulcers due to pneumococcus infection optochin is used as a 1 or 2 per cent. solution in water, applied locally by means of swabs. The solution should not be kept long, as old solutions are not so efficacious. The clinical experiences of optochin are distinctly favourable, and in cases of corneal ulcers the remedy is apparently specific.

Allenbury Products.—Messrs. Allen & Hanburys, Ltd., Bethnal Green, London, E., are now putting on the market "Byno-Chrismol," a combination of their "Bynin" with 50 per cent. of "Chrismol," a specially prepared liquid paraffin. This is a perfect and palatable combination, which is specially suitable in cases of indigestion where a laxative but non-purgative effect is desired. "Chrismol" is excellent in that respect, and "Byno-Chrismol" is a decided advance. The first sample of the new season's cod-liver oil that we have received is one from Messrs. Allen & Hanburys, being part of their first consignment of oil made at their own factory in Henningsvaer. The sample shows that the quality of this season's cod-liver oil is above the average; it is very pale, has a bland taste, and is almost odourless. The oil is also free from that trace of acidity which indicates free fatty acids; in short, it has all the qualities of oil made from perfectly fresh livers. Samples and prices of the oil will be sent to any buyers on application to the company at the above address.

"Black Hand" Vermin-killer.—Messrs. Thomas Christy & Co., 4-12 Old Swan Lane, London, E.C., have taken up the agency for the "Black Hand" preparations for killing rodents (such as rats and mice), and pests like blackbeetles. The kind for rats and mice is a biscuit, which in appearance and taste is not unlike plum-pudding. It kills the rodents and dries up the bodies after death, so that they ultimately fall to dust. This exterminator retails at 6*d.* and 9*d.* per packet. The "Black Hand" vermin-killer for cockroaches, beetles, and other insects, is in powder put up in packets to retail at 5*d.*, 8*d.*, and 1*s.* These preparations have been well tried. Messrs. Christy have reports from steamship companies who have tried the exterminator on their liners with marked effect. Messrs. Christy also tell us that in their own warehouse they have used it, and can speak well of it. They supply very striking posters, handbills, and showcards for retailers to use in their own shops, and they will be glad to give further information on application to them.

"Massalique."—Messrs. C. J. Hewlett & Son, Ltd., 35 to 42 Charlotte Street, London, E.C., have devised a special applicator for hair-lotions, which is sold as the "Massalique" applicator. The illustration indicates the form of the instrument, which is ten inches long. Beneath the sponge on the left is a glass tube, which takes the form of a nozzle, and on pressing the rubber

ball the liquid contents of the tube are conveyed to the sponge. The form of the applicator makes it easy to apply lotions direct to the scalp and to apply gentle massage, which it is generally agreed should accompany the use of any lotion intended to promote the growth of the hair. The "Massalique" is a cleanly and handy applicator, and should be introduced to the notice of customers who purchase hair-lotions.

A Striking Statement.—Our publisher has submitted to us a proof of an announcement in this week's Coloured Supplement regarding the number of replies received at our office *only* to advertisements in last week's Supplement. The total is 721—an unprecedented number. In the natural order of things advertisers who wanted replies sent to them direct have received many more than that. On looking more closely into the matter we find that all the advertisements with few exceptions were replied to, *i.e.* :

Businesses for disposal.	Agencies.
Articles for sale.	Apprentices.
Businesses wanted.	Situations open.
Partnerships.	Situations wanted.

It is in these only that occasional anonymity (so to speak) occurs, and, with a few exceptions, the advertisers received from one to forty-eight replies each up to Wednesday afternoon. We have always known that our Supplement does the work it was designed to do, but it is seldom that we have occasion to critically examine how it does it. The present opportunity enables us to testify to the efficiency of the medium.

Silver Goods Side-line.—Of the various adjuncts to the business of a chemist and druggist the newest is the sale of silverware and fancy goods. There are various good reasons why this side-line is taken up, but there is no doubt that it is a most suitable adjunct to businesses with large premises and good show-windows. It is a profitable line also, and at certain periods of the year when present-giving is seasonable the turnover of silverware as gifts is enormous. Chemists may not be acquainted with the source of supply of these goods; attention is therefore directed to the advertisement of Mr. Adolph Scott, 24, 25 and 26 Great Hampton Street, Birmingham, in this issue. We have before us four of Mr. Scott's catalogues, two of which are bulky volumes. The catalogues deal with (1) hall-marked silver and electroplate ware, oak goods, cased cutlery, canteen sets, etc.; (2) clocks, bronzes, jewellery, watches, leather bags, etc.; (3) diamond and gem jewellery suitable for presents; and (4) Amnora plate (spoons, forks, dishes, tea-sets, cake-baskets, table-centres, cruets, etc.). These lists, which are subject to certain discounts, give a very wide selection for those who desire to choose a stock of these goods.

FESTIVITIES.

C.A.A. Dance.

The second Cinderella dance of the session under the auspices of the Chemists' Assistants' Association was held in the Crown Room, Holborn Restaurant, London, W.C., on February 19, when the company enjoyed themselves with a verve only possible to youth. The company of about a hundred were received by the President (Mr. F. W. Crossley-Holland) and Mrs. Crossley-Holland. Among those present we noticed Mr. and Mrs. A. R. Arrowsmith, Mr. and Mrs. E. D. Dixon and Miss Dixon, Mr. and Mrs. J. Keall, Mr. and Mrs. C. E. Macmillan, Mr. and Mrs. C. A. Noble, Mr. and Mrs. G. A. Tocher, Mr. W. Roberts and Miss Pettit, Mr. F. P. Styles and Miss Whittenden, Mr. and Mrs. E. Thompson, Mr. and Mrs. B. R. Wilkinson, Messrs. Alan Francis, J. W. Royle, F. D. Davey, A. T. Bradford, Green, and R. E. Lownsbrough. The supper in the Grand Salon provided, as usual, a pleasant interlude.

Social Evenings.

The Midland Pharmaceutical Association had a successful whist-drive and supper at the Grand Hotel, Birmingham, on Wednesday evening, February 18.

The South-West London Pharmacists' Association held a social evening at Stanley's Restaurant, Lavender Hill, S.W., on February 25. The President (Mr. John Keall) and Mrs. Keall received the guests, who numbered over 150, local pharmacy being well represented. The whist-drive was held first, thirteen rounds being played, the winners being: *Ladies*—Mrs. Christy, Mrs. Keall, and Miss Parkhurst. *Gentlemen*—Mr. Mason, Mr. Watson, and Mr. Webb. The prizes were presented by Mrs. Keall. An interval for refreshments followed, during which Mr. Keall welcomed the visitors. Mr. J. D. Marshall, in replying, said the function was such a happy one that his Association (the Western Pharmacists' Association) is going to copy it for their next one. Dancing followed until close on midnight, the intervals between the dances being enlivened by an excellent musical programme. Mr. A. R. Arrowsmith was an assiduous M.C. He was assisted by the Hon. Secretary (Mr. E. A. Atkins). The arrangements for the musical programme were made by Mr. A. Millner. The singers included Mr. A. R. Arrowsmith and Mr. Millner.

Whist-parties.

In connection with the Harrogate Pharmaceutical Association, a whist-drive was held in the Imperial Café on February 20. This was the second of the series, and proved a most enjoyable function. Mr. Geo. Fenn (President) and Mrs. Fenn were in charge of the proceedings. Supper was served during the evening, and at the interval Mrs. Taylor and Mr. G. R. J. Parkes entertained the company with songs and recitations. The prizes were distributed by Mrs. Fenn as follows: *Ladies*—Mrs. Parkes, Mrs. Froggatt, and Mrs. Dixon. *Gentlemen*—Mr. Mortimer, Mr. Mackay, and Mr. Froggatt. The President's special prizes were won by Mrs. Pattison and Mr. P. L. Ridge. A vote of thanks to Mr. and Mrs. Fenn concluded a delightful evening.

At the whist-drive of the Oldham and District Pharmaceutical Association at the Café Monico on Tuesday evening, February 24, nine pharmacists were present, and their friends brought the attendance up to thirty-eight. Before the drive commenced, the President (Mr. E. H. Holden) moved that a resolution of sympathy be sent to the relatives of Mr. Albert Gartside (brother to Mr. C. Gartside and Mr. W. Gartside, two most active members), who died on Saturday last. The resolution was agreed to in silence. The winners in the whist were: *Ladies*—Miss A. E. Smith, first prize (flower-vase); Miss A. B. Marlor, second prize (smelling-bottle). *Gentlemen*—Mr. F. Newby, first prize (inkstand); Mr. W. E. Williams, second prize (pocket wallet); Mr. G. Brierley, hidden-number prize (fruit-knife).

Dinners.

After the meeting of the Leigh Chemists' Association on February 11, reported on another page of this issue, the annual dinner took place. The new President (Mr. J. Wallwork) presided, and was supported by Mr. W. I. Scholes (Eccles), the Secretary of the County Pharmaceutical Association. After the toast of "The Duke of Lancaster," proposed by the President, Mr. Hampson proposed the health of "The President," to which Mr. Wallwork replied, and spoke of the changes that had taken place in his fifty-three years' experience of pharmacy. He also expressed his appreciation of the honour conferred upon him by the Association. The toast of "The Pharmaceutical Society" was proposed by Mr. Stout, and responded to by Mr. L. Turner, the Local Secretary. "The County Pharmaceutical Association" was proposed by Mr. Davies, who spoke of the good work done by Mr. Scholes in safeguarding the chemists' interests before the Insurance Committee. Mr. Scholes, in reply, gave a short account of the meeting of Local Association delegates held in London. The toast of "The Retiring Officers" was then proposed by Mr. H. Wallwork, and responded to by Mr. Hampson (the retiring President) and Mr. Davies (the retiring Secretary).

The seventh annual dinner of the "Allenburys" Athletic Club was held at the "Talbot" Restaurant, London Wall, on Tuesday evening, February 24. In the absence of Mr. W. R. Dodd, the chair was taken by Dr. R. J. Hanbury. Mr. Capel Hanbury was also present along with three of the firm's representatives—Mr. Grice, Mr. Martin, and Mr. Good. The outstanding feature of the evening was the presentation of prizes and medals to members of the cricket teams, who last season won for the second successive year the Championship Cup of the Wholesale Chemists' and Druggists' League. Prizes for batting and bowling were presented by the Chairman, as also championship medals, which each member of the team received. The League record for 1913 is as follows: Played, 10; won, 8; lost, 1; drawn, 1. Runs for, 1,123; against, 574. The company having toasted "The King," a musical programme was commenced by the talented members of the Club, and the very creditable performance met with much appreciation. During the evening the Chairman spoke a few words of congratulation to the cricket team, also dealing with the social benefits that accrue from the Athletic Club. Being a supporter of co-operative ideas, Dr. Hanbury was particularly interested in the doings of the Club, and appreciated the loyalty shown by their efforts in this direction. Mr. Capel Hanbury endorsed these remarks, and thanked the Club for their reception. Other toasts followed. The energies of the Secretaries (Mr. F. Lucioni and Mr. A. V. Crossmann) were specially referred to, and these gentlemen are to be complimented upon the result of their persevering efforts.

The annual dinner of the past and present students of the School of Pharmacy of the Pharmaceutical Society was held in the Gordon Salon of the Holborn Restaurant, London, W.C., on February 20. Mr. Edmund White (President of the Pharmaceutical Society) was in the chair, and supporting him were Mrs. White, Mr. and Mrs. J. C. Umney, Mr. and Mrs. W. J. Uglow Woolcock, Mr. and Mrs. F. A. Rogers, Professor H. G. Greenish, Professor A. W. Crossley, Mr. C. B. Allen, Mr. C. T. Allen, Mr. W. H. Allen, Mr. G. B. Francis, Mr. Alan Francis, Mr. C. A. Hill, Mr. R. R. Bennett, Mr. T. E. Lescher, Mr. F. C. J. Bird, Mr. C. H. Hampshire, Mr. and Mrs. G. A. Tocher, Mr. H. Finnemore, Mr. W. Garsed, Mr. E. F. Harrison, Mr. A. Browne, Mr. A. R. Melhuish, Mr. V. C. Hewlett, Mr. E. M. Holmes, Mr. R. A. Robinson, jun., Mr. W. P. Want, and Mr. A. J. Chater. There was a good attendance of students. After dinner and the toast of "The King," Mr. C. J. Eastland, who spoke of the high standard of teaching at the School of Pharmacy, proposed the toast of "The Pharmaceutical Society." The President replied, and urged the claims of loyalty to the Society from the students, on whose behalf such sacrifices are made by the Council. Students are expected to take their share in pharmacy in after-life, and put into practical use the instruction obtained at the School. Mr. T. E. Lescher, in a classical speech, gave the toast of "The School of Pharmacy," and dwelt on the great influence on character which the School imparts to its students. The professors of the School have always been men of distinction, this tradition being well maintained at the present day. Mr. Lescher referred to Professor Greenish as "a professor of world-wide eminence," and to Mr. Woolcock as "the silver-tongued orator of pharmacy." These two gentlemen responded to the toast. Professor Greenish, who was received with prolonged applause, began with happy references to the words of the songs that had just been sung, then in serious vein said that the success of the School has been great if judged by the distinctions obtained by the students. Pharmaceutical education is at the present time in a state of fusion, but he thought they might safely trust the President and Council to direct educational matters into channels profitable to the craft in general. Mr. Woolcock, in his reply, was humorous, and said amid much laughter, that, looking around, it was obvious that study at the Square is a most excellent preparation for a "heavy" future. He spoke also of the "Freemasonry" of School students in after-life, which he (the speaker) experiences all over the country. Mr. C. B. Allen proposed the toast of "The Chairman," and referred to Mr. White as one who has gone through the whole course of the Society from scholar to President. Mr. White, in reply, said in the work he was doing he values more than anything the appreciation of his fellow-men. An excellent musical programme was gone through during the evening.

Practical Notes and Formulae.

Tetrachloride Tincture of Iodine.

As an alternative to the use of alcohol in making tincture of iodine for skin-sterilisation, a French writer suggests the employment of carbon tetrachloride. A 2-per-cent. solution is referred to.

Bay-rum for Barbers.

Mr. John F. McAnulty, in "Merck's Report," states that the following formula for a bay-rum for barbers' use is cheap, yet a superior article :

Oil of bay-leaves	1 oz.
Borax	1 dr.
Oil of cinnamon	2 dr.
Oil of cloves	20 min.
Oil of lemon	2 dr.
Spirit	20 oz.
Water to make	1 gal.

The oils are rubbed in a mortar with fuller's earth or kaolin (about 4 oz.), and the borax added. The powder is then mixed with the spirit and shaken up for a day or so, when the water is added. Allow to stand for twenty-four hours, with frequent shaking, then filter.

A Cascara Extract Standard.

As a result of tests conducted on numerous samples of liquid extracts of cascara sagrada by Chief Staff Apotheker Dr. E. Amort and Staff Apotheker Dr. W. Rothe in the Hygienic Chemical Laboratory of the Prussian War Office, the following requirements for liquid extract of cascara sagrada have been established : Specific gravity, not below 1.05; dry residue, not below 23 per cent.; precipitate on addition of water, not below 1.5 per cent.; precipitate of tannic acid, not below 3 per cent.; residue after shaking up with ether not below 0.9 per cent., with acetic ether not below 2 per cent., with chloroform not below 0.75 per cent., with amyl alcohol not below 3 per cent., with isobutyl alcohol not below 5 per cent.; phenol, not below 7.5 per cent.; ash, not over 1 per cent.

Artificial Noses.

Henning's method of making an artificial nose of soft material is described in the "Journal of the American Medical Association." A plaster cast is made over a normal nose and melted gelatin mass, composed of 50 parts of gelatin soaked in water and melted with 100 parts of glycerin tinted a flesh colour, is poured into the mould. When it has hardened it is taken out of the mould, holes are made for the nostrils, and the edges are softened with a hot spatula. The artificial nose is then fitted over the patient's deformed nose, and is held in place with varnish or mucilage. The edges of the prothesis are made to run out into a thin sheet all around, and this sheet is patted down on the skin with a hot cloth, and a little powder dusted on the edges. Being comparatively plastic, the gelatin nose yields and moves with the play of the face, giving a particularly lifelike look to the new nose. The whole procedure is stated to be extremely simple, the materials are inexpensive, and the cosmetic effect unusually good.

CREDITORS' MEETING.

An adjourned meeting of the creditors of R. B. C. Allan, chemist, etc., English Street, Dumfries, was held on February 13, when Mr. Allan stated that since the previous meeting he had endeavoured to dispose of the business as a going concern, but without success, and he further stated his inability to continue the business any longer. The matter was fully gone into, and it was decided that Mr. Allan should execute a trust-deed in favour of Mr. Blacklock (Adamson & Blacklock), and Mr. Irving Edgar, Dumfries, and Mr. David Fergusson, solicitor, should constitute a committee to work with him in the winding-up, Mr. Blacklock being instructed to close the shop and dispose of the stock as best he could.

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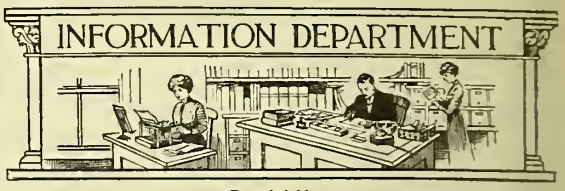

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Postal or telephone information as to the names and addresses of the agents for or makers of the undermentioned articles is solicited. Please address as above.

135/31. Sterilisers marked "F. H. St. C."; arrow trade-mark with red cross-band.
134/54. "Spica" bandages.
134/53. "Malletrein."
134/2. "Multum in parvo" nail-files.
129/67. "Famos" flasks.
135/51. "Speciality" toilet-paper.
134/58. "Osuphine."
135/67 and 138/8. "Ambro Koko" (in tins).
135/670. "Pussine."
135/671. Erasmus Wilson's "Anti-Depilatory Lotion."
135/672. "Sal Hurnton."
138/59. Address of Forth Manufacturing Co., makers of detergent soaps.
138/230. "Mananex" (a paraffin preparation).
138/23. "Teleuretten."
138/231. Mason's petroleum ext. emulsion.
138/232. Dr. Duncau's lethici lozenges.
140/10. Artificial spiders, beetles, and other insects (for insect-powder show).
140/56. "Tœnifuge Debin."
114/28. Compressed sanitary towel "Periodic," marked "G. D." on red cross in circle.
113/73. "Daisy" household rubber gloves.
140/61. Kuhn's mask.
117/66. Menjon's floral cream.
118/8. Dr. Johnson's "Medico" braces.
121/17. "Anti-fregon" for lameness in horses.
111/9. Lactalbumin.

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Inquiries in regard to the following articles have been answered. The information will be given to others who send a stamped and addressed envelope for it to the above address.

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Carpenter's "liquid court plaster," 136/58
Charcoids, 135/53
Codeonal tablets, 135/48
Congreve's elixir, 139/39
Corticine, 135/52
Dentasol, 136/58
Dongor perfumery, 138/231
Electric flash-light signs, 123/61
Eupnein, 138/11
Foulgier's chlorodyne, 116/20
French petalias extract, 127/55
Gallon jars (with taps), 129/33
Goddard's boot-top powder, 116/295
"Hermes" safety-razor, 129/670
Hudson's vegetable leaflets, 134/55
Humphrey's homœopathic veterinary specific, 123/260
"Illusion" perfumes, 130/12
Jacno's balsam, 137/13
Japanese corn-silk, 119/17
Jenner's specialities, 127/650
Kaminia oil for the hair, 135/670
Kacepe balsam, 121/592
Kersote, 127/654
Kingsman's asthma-cure, 127/657
Lignum's drops, 121/59
Liq. hyoscy. (Bastick), 125/63
Lithia acetylsalicylate, 125/23
"Lothian" extract of malt, 133/32
McQueen's account-books, 129/1
Manalax, 138/232
Metal-topped corks, 125/5
"Marvel" whirling-spray, 124/360
Mergentheim tablets, 125/31
Morgan Jones's powders, 119/17
Nashagur skin-soap, 132/12
Nativelle's digitaleine granules, 133/5
"Niagara Mills" toilet-paper, 129/67
Oil-mill machinery (for Rhodesia), 129/57 and 136/1
Oxgall soap, 135/49
Pasteur Vaccine Co.'s veterinary preparations (London agents), 124/12
Penny insect-powder in paper bellows, 137/23
Phormoid, 126/36
Resorbin, 138/58
"Reviva" veterinary preparations, 129/47
Rogée frères perfumery, 127/65
Sapolin, 134/580
Schinke's stomachic pastiles, 134/70
Spermaceti refiners, 130/25
"Sweet-scented Clover" perfume, 123/26
Thierry's balsam, 129/671
Thompson's eye-water (Dr. Isaac), 136/17

OBSERVATIONS AND REFLECTIONS.

By Xrayser II.

/ar with the Companies

seems to Mr. Cecil Owen prefcrable › peace. I dislike company-pharmacy as much as he, ıt I do not understand how he would have us fight it. ſe regrets the time when we refused to recognise the ght of capital to eompete with us, and appears to think ıat we are traitors to our cause in abandoning that ttitude. But whether we recognise it or not capital does nd will compete with us; we might as reasonably refuse › recognise gravitation as this fact. Mr. Owen admits hat we cannot fight the companies on legal grounds; that hey have the same legal standing as we (I have always hought that the law gave them a little advantage, but let hat pass). How, then, *are* we to fight them? The only nswer I can find in Mr. Owen's article is by not fraternisng with them, but this surely is a very poor game, and here is excellent authority for the opposite policy of naking friends of the mammon of unrighteousness. I hink with Mr. Owen that the Society has been too complaisant to the companies as regards representation on the Executive Committee, but, after all, our interests and theirs ıre pretty much the same in that respect, and no great ıarm, if any, can result. The only effective way of fightng the companies is in our own pharmacies, by demonstrating our greater efficiency, winning the respect and confidence of the public, and establishing a reputation for personal and professional honour. And we are so fighting them, and winning the battle too, as Mr. Owen admits.

It Seems Strange to Me

that it should have been left to a "trade" journal to offer the only protest I have yet seen on the disgraceful way in which the interests of the insured are being sacrificed both by pharmaceutical and medical committees, by the incitement to substitution that is being offered. One would have thought that the professional journals, so-called, would have kept afloat the banner of purity and moral rectitude. Nothing of the kind. The medical journals are all sitting severely on the fence watching the unscrupulous grabbing at the floating sixpence by the modern representatives of the man with the muck-rake. To the credit of The Chemist and Druggist, be it said, you have taken up what may possibly be the less popular, but is surely the more honourable standpoint, and I hope you will persist in that attitude till we once more as a body recover a sense of our real duty in this great matter. The present is a testing-point of the real temper of British pharmacy, and if the metal rings true it will turn the whole course of the future into the right channel; if it rings false, then woe betide the next generation of pharmacists.

"American Brains for England"

was the keynote of the talk at the "ladies' night" dinner of the Sales Managers' Association at the Cecil Hotel last week, the topie having, of course, been suggested by Lord Claud Hamilton's selection of Mr. Thornton for the post of general manager of the Great Eastern Railway. Mr. H. E. Morgan, in the course of his speech, said that we English are "singularly lacking in the supreme art of adequately representing our own wares," and that, "whatever the cause, diffidence, bashfulness, or something more profound, we have to take a back seat to our shrewd American cousins." Probably few will be found to dispute the assertion, but it will, in my opinon, be a bad day for England when we over here adopt the view that the adequate representation of our own wares is the "supreme art" even of business. There is, as Mr. Morgan seems dimly to suspect, a more profound reason for our comparative inferiority as showmen or salesmen than either diffidence or bashfulness, and it finds expression in the old Latin tag which one of our leading drug-houses, as far back as I can remember, took for its business motto—*esse quam videri.* To be is a nobler aspiration than to appear, and I am patriotic enough to believe that it is because we have realised this that England stands so high in the estimation of the world. It does not follow that we need take, or do take, a back seat to anybody in business enterprise, but it may mean that our enterprise is more liberally, not to say more honourably, motived.

Who Pays for the Advertising?

is, as you remark, a question that might be argued *ad infinitum.* But there is one point which was not, apparently, touched in the discussion that seems to me to go to the root of the matter—namely, the intrinsic value of the article sold. When a manufacturer produces a pill which he exploits by heavy advertising he may supply an article which, *minus* the stamp, costs him a penny to produce. It does not matter whether the publie pay 1*s.* 1½*d.* or 10½*d.* for this pill, because in either case they pay immensely more than its first cost, and the 6*d.* or 8*d.* which the manufacturer gets includes a large excess beyond the profit common to such articles. It is from this excess that the manufacturer pays his advertising expenses. Every shrewd advertiser knows this, and arranges accordingly. In other words, what the public pay for the pills also pays for the advertising.

The Question of Profit,

referred to in letters on p. 63 last week, is one on which I altogether dissent from the editorial view. Your reasoning is that if you have a quick-selling line of which you can purchase, say, ten pounds' worth and sell it for twelve pounds in four months, and carry through the operation three times a year, you thereby make 60 per cent. profit on the article. This, in my opinion, is quite wrong. It is the common fallacy of the traveller who insists that if we push his line (to the exclusion necessarily of all similar goods) we will turn over the investment once a month and make a fabulous percentage accordingly. Nothing of the kind. In order to carry through your series of operations we must invest our capital three times, and on the traveller's plan twelve times, a year, and the profit on the investment remains the same all the time. The profit must be calculated on each investment, and in no other way; and meantime, while all this is going on, we have to live.

The Different Varieties of Citrus Medica

are so frequently confused by old writers that it is sometimes difficult to be sure which they are speaking of. *Medica* in this connection does not refer to medicine, but to Media, where the citron (of various kinds) is said to have been established early in our era, though the eastern end of the Himalayas is believed to be its native habitat. The citron itself was the first of its genus to be known in the West, and the orange and lemon were not introduced into Europe until the twelfth or thirteenth century. The lime, now so largely cultivated for our use, is not mentioned under that name by any writer I know before 1638, when Sir Thomas Herbert speaks of having found "Orenges, Lemons, Lymes" in the island of Mohelia (in the Comoro group of Mozambique), in his voyage begun in 1626. A later traveller, Dampier (1697), says: "The lime is a sort of bastard crab-limon. The tree or bush that bears it is prickly, like a thorn, growing full of small boughs"; a description which recalls an earlier account of the lemon-tree—that of Fitch in his narrative of Captain Keeling's voyage to Sierra Leone: "The limon-tree much resembles the crab in several points, is very full of prickles, and carries a slender leaf like a willow." He speaks of a "vast wood" of it on the coast. One of the varieties of *Citrus*, the *Pomum assyrium* of some old writers, was held, says Gerard, by "the common rude" people of Italy to be "the same apple which Adam did eate in Paradise, when he transgressed God's commandment; whereupon also the prints of the biting appear therein, as they say."

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Editorial Articles.

Insurance Risks.

III. Territorial Representation v. London Caucus.

THE interests of country chemists have rarely met with due attention at headquarters in Bloomsbury, and the immense importance at present attached to Insurance matters is likely to jeopardise these still further. Oversight was mainly consequent upon the fact that Pharmaceutical Associations in the past were intimately connected with towns, where preponderating pharmaceutical service under the National Insurance Acts may obscure the claims of rural pharmacists more than ever. The new County Associations of Pharmacists are still in some instances mere paper organisations, and some scheme is necessary to galvanise these into activity if the needs of country chemists are to be adequately represented, because it is only through them that grievances can be ventilated. The mile limit for Insurance dispensing is a rural disability which has been neglected in England and Wales, whereas in Scotland, where it affects the country more as a whole, decided gains have been made in this respect through the Scottish Medical Benefit regulations. The injustices and irregularities of application arising out of this rule alone make the hardships of panel chemists in rural areas greater than those of their *confrères* in municipal districts. The principles and suggestions advanced in our articles on linking-up gained general recognition for their constructive value, and, curiously enough, the discords in the pæans of praise which have greeted the democratic spirit shown by the Pharmaceutical Council relate to ideas which were embodied in our articles but have not been adopted so far. Mr. T. W. Townley (*C. & D.*, February 14, p. 65) emphasises the difficulty of sparsely populated counties obtaining representation on the Executive of Local Associations otherwise than through a territorial scheme. The chief mandate to the "conference" on January 21 was "territorial representation," and the motions from Lancashire and Yorkshire (obviously based on the *C. & D.* scheme) were only withdrawn after a resolution in favour of territorial representation had been passed and a promise given by the President of the Society that some such scheme would be submitted at the next conference. Had that resolution not passed and the promise not been given, the business would not have proceeded without a demonstration of Council caucus power, which is so inimical to the good will at present prevailing in British pharmacy that it can only be used as a last resource. The resolution and promise are not dead, and cannot be killed if provincial pharmacists stick to their guns. The mere modicum of

t ritorial representation on the Executive has brought a objection from Bloomsbury against "cast-iron" terri- t al schemes, the best man irrespective of area being n st favoured in that quarter. This is a real Insurance r s, for in practice it means that the "best-known" n n get the votes, and they are not always the "best" n n. In a year's experience of pharmaceutical service i has been found that much pharmaceutical spade-work h been done which is only known to chemists in the p ticular Insurance area concerned. To bring into n ional counsels the men who have done this was o of the objects in view when we proposed that each r ritorial area to be represented on the Executive o uld have its own elective meeting or "centre" to co-ordinate opinions and to advise its represen- t ive accordingly. Moreover, "swapping votes" o uld not deprive less populous areas of represen- t ion, while problems of overwhelming local import- o e, such as have occurred at Chesterfield, Derby, d Grimsby, would be ventilated and appraised at their l value. The Pharmaceutical Society in its policy of strict meetings already recognises the necessity of tting into touch with the general feeling in different eas. Still, at such meetings the rural element, whose terests are under discussion, is not adequately repre- nted, primarily because it is more difficult to attend and condarily from shyness among comparative strangers. n our second article on federating Local Associations "on county and county-borough basis" we advocated that the County Associations should take charge of the arliamentary divisions and the County Borough Associa- ons take the Parliamentary boroughs." This includes eans of solving a dual difficulty: What to do with the efunct system of divisional secretaries and how to secure epresentation in rural areas. If the divisional secretary or each Parliamentary division became instead a member f the County Association Executive, rural chemists in hat division could through him be in touch with the harmaceutical organisation for the county, and the County Association in touch with members of Parliament or county divisions. The same arrangement could be xtended to county boroughs with several Parliamentary onstituencies, and even London could be organised on this basis through its six District Associations. Thus it hould be possible to make pharmaceutical organisation a compact thing with ramifications in Insurance and parlia- nentary areas, including country districts. An ndigested idea, countenanced in the official organisation notes, is to form Chemists' Associations in Parliamentary divisions. At present there are sixteen such Associations (*C. & D.*, December 20, 1913, p. 61), and about 200 more would have to be formed. Those in existence are of recent origin, but their meetings are rare, and they will probably languish and die rather than increase. Whatever the Pharmaceutical Council may decide upon in the way of reorganisation of its own affairs at the next meeting, we trust that the conservation of local interests will be kept well to the front. This is one of the essentials if a caucus centred in the metropolis is not to arise.

The Cannabis-indica Duty.

A further step in the direction of prohibiting the consumption of cannabis indica has recently been taken by the Bombay Government, which, as notified in the *C. & D.* a fortnight ago, intends to increase the Excise duty from April 1 next to Rs. 7-8-0 per seer, or, say, 5*s.* per lb. Since 1900 the Excise duty has been advanced on five occasions in all, as may be seen from the following figures: 1900, Rs. 3 per seer=2*s.* per lb.; 1902, Rs. 4 per seer=2*s.* 8*d.* per lb.; 1906, Rs. 5 per seer=3*s.* 4*d.* per lb; 1911, Rs. 6 per seer=4*s.* per lb.; 1914, Rs. 7-8-0 per seer=5*s.* per lb. This duty, it need hardly be explained, is not, strictly speaking, an export one, being imposed upon the ganja when it leaves the golas or warehouses where it is received under bond after preparation in the fields. The full weight of the duty is, however, being felt on the London market, as the price of genuine Bombay guaza tops for several weeks past has been 7*s.* per lb., and after March 31 5*s.* of this will represent duty. Extremely limited quantities are available, and there is no inducement to buy except for current requirements. The effect may be that the inferior grades of East African and Marmagoa will also appreciate in price. Some interesting information in regard to Bengal guaza or ganja is given in the report on the Administration of the Excise Department in the Presidency of Bengal for the year 1912-1913, in the course of which it is stated that the duty was from April 1, 1913, increased from Rs. 11 to Rs. 15 per seer (10*s.* per lb.), or just half that placed on Bombay gauza. The report states that:

> There was an enormous decrease in the consumption of ganja in Calcutta, but this falling-off was largely counterbalanced by increases in other districts, notably those of the Rajshahi Division, and the consumption for the Presidency as a whole was only 15 maunds short of that of the previous year. It is somewhat difficult to account for the abnormal decrease in Calcutta. Several causes have been at work, and there seems reason to fear that the spread of the cocaine-habit has not been without effect upon the consumption of ganja. On the other hand, a reduction in licence-fees and a reported increase in the ganja-habit have swelled the consumption in other districts. The continued increase in the consumption of this drug in recent years has impressed the Local Government with the necessity for taking measures to check its growth, and with effect from April 1 last the duty has been increased from Rs. 11 to Rs. 15 per seer. The increase was intentionally put at a high figure with the double object of increasing the retail price and of transferring taxation from the head of licence-fees to duty. This measure has already had its effect on consumption. The figures for the first quarter show a diminished consumption as compared with that in the previous year.

The coolies of the West Indies and the Mauritius are the principal consumers of the Bengal guaza exported, and it is of interest to note that 179 maunds 27 seers (about 14,720 lb.) was shipped from Calcutta in 1912-13, or 53 maunds 28 seers less than in 1911-12. This was shipped as follows: Mauritius, 51 mds.; London, 38 mds. 39 s.; Trinidad, 35 mds. 13 s.; Demerara, 34 mds. 4 s.; Surinam, 10 mds.; and the remainder to French colonies. The amount credited to London is, of course, for transhipment to the West Indies. The report gives a considerable amount of information in regard to other hemp drugs, such as bhang and charas.

Tinctures and Perfumes.

For facilitating the despatch of export tinctures, the Board of Customs and Excise have given authority for the transmission of the abstract form to the collector instead of the shipping officer. The revised regulation now runs as follows:

> "The abstract (Form 111-6) may, if the place of packing is at the port of shipment, and the exporter so desires, be handed to him for transmission to the proper collector, but in this case the officer must enclose it in a sealed and properly addressed envelope."

Official attention has been lately directed to the regulations governing the manufacture of perfumed spirits in bond, and the warehouse officers concerned are enjoined in future to keep a stock account of all spirits and liquid

and dry ingredients to be balanced annually. The usual 5 per cent. waste allowance is still retained. Diversity of practice hitherto has led to this more precise definition of the term "ingredients," so as to include wet and dry goods. A more embracing regulation dealing with the delivery out of warehouse of the spent pomades, fats, etc., has been substituted for the previously restrictive one, viz. :

"Pomades or perfumed fats that have been used for extracting the perfumes, and the residues of other ingredients, which have been treated with spirits, are to be charged with duty on the amount of spirit they contain, for the estimation of which a sample is to be forwarded to the laboratory. Care is to be taken that no spent ingredient is delivered free of duty, unless the analyst has certified on the testing-paper sent to him that such ingredient is free from spirit."

It need hardly be said that these revisions only apply to perfumed spirits made in bond for export. The great increase in duty legalised by the Finance Act, 1909-10, led, it will be recollected, to an agitation for the extension of these official regulations to the home trade, but for the present the promoters are "lying low," awaiting more propitious times.

Executive Committee of Local Associations.

The first meeting of this new Executive is to be held at 17 Bloomsbury Square, London, W.C., on Wednesday, March 4, at 3 p.m. The membership has been completed by the appointment of Messrs. Trick (Lewis & Burrows, Ltd.), and Waring (Boots, Ltd.), on behalf of companies. The Pharmaceutical Standing Committee on Insurance still exists, but an intimation of its demise by hari-kari may be expected at the meeting, as well as the appointment of officers.

The B.P.C.

This week the officers of the British Pharmaceutical Conference have issued the annual appeal to members and those who wish to or should be. A financial statement accompanies the circular, and this shows that the income of 1913 (485*l.* 10*s.* 11*d.*) exceeded the expenditure by 3*s.* 7*d.*, although an adverse balance of 7*l.* 17*s.* 10*d.* began the year. The result is gratifying in view of the precarious rut that the finances were drifting into a few years ago. But are the figures such as the pharmacists of the British Empire are proud of? This is the one organisation of pharmacists devoted to non-political and pharmacy-improving work which is imperial in possibilities, and the amount contributed by members last year was 392*l.* 7*s.* 9*d.*, or not quite sixpence a year for each registered chemist in Great Britain. Is it possible to get an Act of Parliament to compel every person registered under the Pharmacy Acts of Great Britain and Ireland to become a member of the Conference and pay it 1*s.* a year? If that happened, we expect the Conference would give a better return in practical and progressive work than some organisations do for a guinea a year. The Treasurer and Secretaries of the Conference remind us that "the annual meeting will be held at Chester from July 20 to 23, under the presidency of Mr. E. H. Farr. In common with 90 per cent. of the members of the Conference, Mr. Farr is a practising pharmacist in retail business who has devoted himself to the advancement of the scientific aspects of his calling"; and on these grounds they confidently ask support at Chester.

Poisons in the United States.

Mr. Martin I. Wilbert and Dr. Murray Galt Motter, of the Hygienic Laboratory, United States Public Health Service, have prepared as a Departmental paper a digest of laws and regulations relating to the possession, use, sale, and manufacture of poisons and habit-forming drugs enacted during 1912 and 1913, and now in force in the United States. In the course of this it is shown that the use of poisons for committing suicide is increasing in that great country. During 1901-1905 the average annual number of deaths from suicide by poison was 1,549. In the succeeding five years the number has increased, in 1908 being 2,511, in 1909 2,462, in 1910 2,456, and in 1911 2,927. The increase in poisonings is attributed to the publicity given in the daily Press to details of fatal cases and the poisons used. The report deals also with narcotic drugs, such as cocaine and morphine, and the following particulars are given regarding the drugs entered for consumption in the United States during the years mentioned :

—		1909	1910	1911	1912
Coca leaves .	lb.	1,100,649.00	708,546.00	1,226,771.50	1,179,540.00
Cocaine and salts of . .	oz.	32,272.00	54,560.00	4,031.00	2,004.00
Opium, crude.	lb.	465,776.08	411,444.27	502,407.03	384,911.61
Powdered .	,,	—	—	67,962.99	77,551.10
Prepared for smoking .	,,	118,508.80	27,934.86	—	—
Morphine or morphine sulphate .	oz.	152.40	13,082.00	20,345.00	13,825.00
All other alkaloids of opium .	oz.	3,779.00	22,970.50	480.25	631.00

To make these figures more intelligible to the laity the authors actually work out the total number of doses represented—*e.g.*, coca and cocaine 340,000,000, and opium and its products 3,040,000,000 in 1911. Good digests of all the laws passed in the various States and by the Federal Legislature during the two years mentioned are given. These lead to the reflection that the country is unfortunate, so far as poison-laws are concerned, in having so many Legislatures dealing with the subject, for there is very little uniformity throughout, as has been pointed out recently in letters from our American correspondents.

NEW BOOKS.

Any book published in the United Kingdom can be supplied to our subscribers at the price quoted. Orders, with remittance, should be sent to the Publisher, 42 Cannon Street, London, E.C.

The Chemists' and Druggists' Year-book and Directory for Scotland. Edited by J. P. Gilmour, M.P.S. 1914. (Munro & Co., Glasgow.) [The book begins with "The Annals of Pharmacy in 1913," in which the editor glances rapidly and sapiently over the chief events of the year, but the Jubilee meeting of the British Pharmaceutical Conference has unfortunately been omitted—by accident, we understand. The next section is entitled "Some Representative Men in Pharmacy," and here are given many portraits and biographical notes regarding some Scots who are taking or have taken a prominent part in the advance of pharmacy. "A Digest of Pharmacy Law, and General Statutes Applicable to the Practice of Pharmacy" follows this, including much matter regarding Insurance dispensing. Articles are contributed by Dr. J. F. Tocher on "Pharmaceutical Education," and by Mr. J. H. Ramsay on "Simple Pharmaceutical Testing." The Year-book contains also examination information and directory matter, particularly as regards Scotland.]

The Russian Year-book for 1914. By Howard P. Kennard, M.D., and Netta Peacock. 8×5½. Pp. 873. (London: Eyre & Spottiswoode, Ltd.) [This, the fourth annual issue, gives concise information in regard to administrative, political, military, naval, commercial, legal, literary, and financial matters. In brief, it is a survey of the Russian Empire as measured by the growth of its trade and commerce. The greater part of the work is entirely new, having been compiled from the latest official documents and Government publications. The Customs tariff has been brought up to date, and a summary of the trade of 1912 has been included, while the article on Russian ports has been entirely recast.]

TRADE-MARKS.

Th igures in parentheses refer to the classes in which the marks re grouped, for a list of which, with particulars as to registra- on, see "The Chemist and Druggist Diary," 1914, p. 237.

Ob ctions to the registration of any of the undermentioned pplications must be stated on Form T.M. No. 7 (obtain- ble at Money Order Offices for £1) and lodged with Ir. W. Temple Franks, Comptroller-General, Patents Office, 5 Southampton Buildings, Chancery Lane, London, W.C., vithin one month of the dates mentioned.

(*om the "Trade-marks Journal," February 11, 1914.*)

SSALENE"; for veterinary chemicals (2). By L. C. ipper, 43-45 Homer Street, Balsall Heath, Birming- am. 357,541.

SOLENE"; for chemicals (2). By Pearson's Antiseptic o., Ltd., 15 Elm Street, London, W.C. 357,925.

BICOL"; for a liniment (3). By Squire & Sons, Ltd., 13 Oxford Street, London, W. 355,035.

SCEMENT"; for a dental medicine (3). By The Palatine Dental Manufacturing Co., Ltd., 15 High Street, Man- hester. 356,168.

ces of man and woman with headache; for a medicine 3). By Daisy, Ltd., Holbeck, Leeds. 356,956/958.

l with word "WEBRIL"; for lotions and ointment (3). By A. & H. Brierley, 7 Brompton Street, Oldham. 57,331.

"MNACETIN"; for medicines (3). By R. & O. Weil, 3-9 Friedberger Anlage, Frankfurt a/Main. 357,367.

"AGOL"; for a medicine (3). By Burgoyne, Burbidges & Co., 12 and 16 Coleman Street, London, E.C. 357,436.

"RTIGEN"; for medicinal chemicals (3). By Kalle & Co., 23 Rheinstrasse, Biebrich-on-the-Rhine. 357,551.

"LACO"; for non-medicated surgical appliances and teats (11). By Hasting, Lang & Co., Ltd., 1 Roman Street, Church Street, Manchester. 357,046.

"RYTONE"; for sensitised photographic paper (39). By Baryta, Ltd., 5 Moorgate Street, London, E.C. 356,431.

"DIUM"; for rubber hot-water bottles, etc. (40). By Hooper & Co., 7 Pall Mall East, London, S.W. 357,350.

"OCOON"; for perfumery, etc. (48). By Ogston & Tennant, Ltd., Saint Rollox Soap and Candle Works, Renfrew. 350,207.

"ALMETA"; for perfumery, etc. (48). By E. A. Barton, 5 Station Parade, Palmers Green, London, N. 357,097

"RUXOLINE"; for a hair-preparation (48). By W. Whiteley, 4 St. James's Road, Halifax. 357,189.

"DME"; for toilet-articles (48). By C. O'Hagan and C. S. O'Hare, 67A Hill Street, Newry. 357,220.

"MART SET"; for perfumery, etc. (48). By Gallet Pellerin & Cie., 38 Rue d'Hauteville, Paris. 357,400.

"IALDO" and "NALDO"; for toilet-preparations (48). By P. O'Connell Finigan, 176 Haverstock Hill, London, N.W. 356,847/8.

POISONING FATALITIES.

IRTEEN deaths from poisoning have been chronicled during week. Four were by misadventure.

bortefacient Drugs.—At the inquest on Laura Wheatley), caretaker's wife, of Piccadilly, London, W., who died the Westminster Hospital from taking drugs for an lawful purpose, the jury found that deceased "wilfully d feloniously killed and murdered herself."

arbolic Acid was the suicidal agent used by Thos. ward Davies (33), newsagent, Wolverhampton, and Edith izabeth Richards (29), Liscard, Cheshire.

hloral Hydrate.—Robert Frederick Parsons, an aged etaker, of Blackpool, died from an overdose of this drug. e evidence at the inquest showed that Parsons had taken e whole of the contents of a bottle of soporific medicine ntaining four doses). He had used the prescription for is during the last twenty years. The widow said that one se, or even two doses, had no effect on her husband; it s like taking water. The chemist had warned her that e should not let him take the entire contents of the ttle at one time.

Laudanum.—Robert Wylie (53), shepherd, Wolf Cleugh ead, near Hawick, died from the effects of this opiate.

Morphine.—John Finlayson MacPhail, medical practi- oner, Hull, died by an accidental overdose of morphine.

Phosphorus Paste was responsible for the death of a three- ar-old boy named Beanes, at Westminster, who ate some bread and jam which had been spread with this poison for the purpose of killing mice.

Potassium Cyanide caused the suicidal death of Frank Hanson Williams (51), manufacturer's agent, Distaff Lane, London, E.C. Dr. F. Womack, in his evidence, said that aspirin, a bottle of which was found near deceased, was safer than phenacetin, and that he had never heard of a death through its administration. A gelatinous tablet also found in the office contained 2 grains of quinine and "a little phosferine." In answer to the Coroner, witness said he would like to see every proprietary article have its formula on the label. The Coroner's officer said he had not been able to find where the cyanide was purchased.

Salt of Lemon was taken for suicidal purposes by Ellen Louisa Speich (31), York, and Elizabeth Gale Mears (41), Hull.

Spirit of Salt.—Emmie Layton (21), Wood Green, poisoned herself with this corrosive acid.

Veronal.—This hypnotic caused the accidental death of Major Lionel Wilbraham (59), retired Army officer, at Coldharbour, Andover, Hants.—Ethel Mary Karuth (40) intentionally ended her life at the French Convent, Plimmer, by taking twenty 5-grain tablets of veronal.

PRESCRIPTION PROBLEM.

A READY response resulted from the problem in prescription-reading which formed the exercise in this column in the Winter Number of THE CHEMIST AND DRUGGIST. The reading of the script is as follows:

Ung. hydrarg. ammon. dil. ʒij
Sig. As directed

The greatest proportion of the competitors succeeded in reading the prescription, and we have accordingly had to fall back on the rule to award prizes to the earliest correct results received from various parts of the country. The prize-winners are as follows:

London and District: Mr. H. M. Webber, 65 Gladstone Avenue, East Ham.

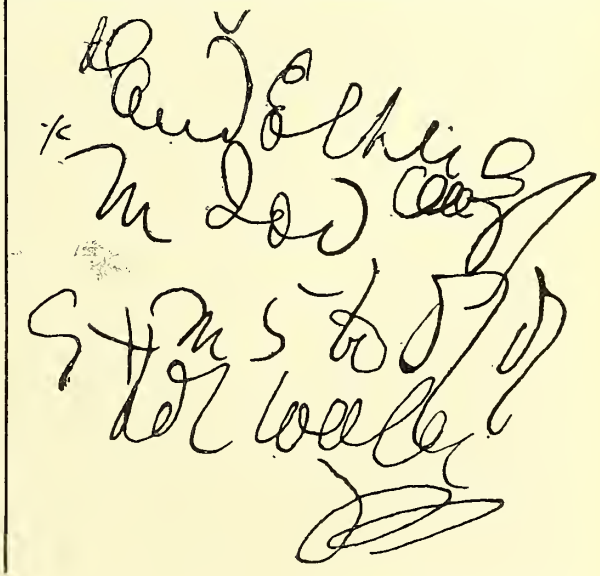
English Provinces: Mr. J. Leach, c/o Palmer & Son, Ramsey, Huntingdon.

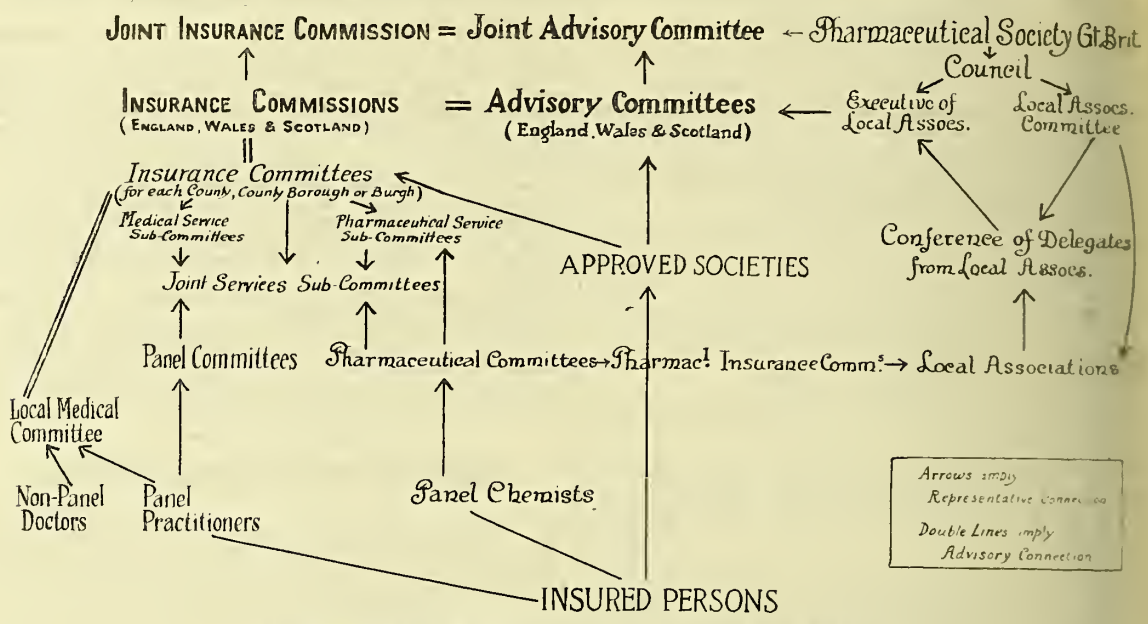
Scotland: Mr. John Stewart, c/o Francis Spite & Co., Ltd., Port Street, Stirling.

Ireland: Mr. Thos. Burke, Medical Hall, William Street, Tullamore, King's Co.

To each of these we award a copy of any one of our books other than "Pharmaceutical Formulas" and Wootton's "Chronicles," and shall be glad if the successful competitors will let us know their choice.

The following prescription forms the subject of the next competition. Postcards should be posted not later than March 7. Prizes will be awarded at the discretion of the Editor, and in case of close competition the time of posting will be taken into account:





Administration of Insurance Act Medical Benefit.

THE above chart shows how the various bodies instituted by the National Insurance Acts, 1911 and 1913, for the administration of Medical Benefit are related to each other, the supreme body (under the Government) being a Joint Committee of the four Commissions (England, Wales, Scotland, and Ireland—which has no Medical Benefit, so is not included in the chart). The subjoined paragraphs describe generally the functions of each body:

The Joint Committee (called "Joint Insurance Commission" in the chart) consists of ten members and a clerk, assisted by a permanent staff of over thirty, mainly for actuarial purposes. Its duties consist in exerting a co-ordinating influence in regard to the regulations issued by the separate Commissions, and making financial adjustments between the funds of the separate Commissions. It alone approves Friendly Societies and arranges valuations.

The English Commission is composed of nine Commissioners with a Secretary and a staff of over 800. The Commission exercises administrative and judicial functions. It is the authority to be satisfied as regards arrangements for medical treatment in England, including the supply of medicines and appliances.

The Welsh and Scottish Commissions consist of five members, each with a Secretary and permanent staff, and have similar duties to the English Commission.

Advisory Committees are appointed "for the purpose of giving the Insurance Commissioners advice and assistance in connection with the making and altering regulations" in regard to Part I., National Health Insurance. There are Advisory Committees to the Joint Committee and each separate Commission.

The Joint Advisory Committee consists of 161 members, including twenty-eight representatives of employers, sixty-seven of insured persons, thirty-three medical members, and two pharmacists.

The English Advisory Committee has 152 members, including two pharmacists.

The Welsh and Scottish Advisory Committees are smaller (fifty-seven members each). Each has only one pharmacist member.

Insurance Committees.—Each county and county borough (burgh in Scotland) has an Insurance Committee of not more than eighty members nor less than forty (twenty-five in Scotland). Of these, three-fifths are representatives of insured persons, and a definite number of medical men must be elected or appointed. Each Committee has a pharmacist member appointed by the Insurance Commissioners. Each Insurance Committee is responsible for administration of medical benefit in its locality, and it is legally responsible for the compilation of the schedule of prices known as the Drug Tariff. The "Service Sub-Committees" below are Sub-Committees of the Insurance Committee, to which they report.

Medical Service Sub-Committee of the Insurance Committee consists of three (or, if desired, five) medical members, one appointed by the local Medical Committee and the remainder by the Panel Committee, with an equal number of representatives of insured persons. Complaints as to medical service are dealt with by this Committee.

Pharmaceutical Service Sub-Committee consists of three members appointed by the Pharmaceutical Committee and three representatives of insured persons. Complaints as to the supply of drugs and appliances are considered by this Committee.

Joint Services Sub-Committee consists of two panel doctors, two panel chemists, and two representatives of insured persons appointed by the Medical Service Sub-Committee, Pharmaceutical Service Sub-Committee, and Insurance Committee respectively. It deals with complaints in which the interests of both doctors and chemists are involved.

The Local Medical Committee for each county or county borough is such Committee as the Insurance Commissioners are satisfied is representative of the medical practitioners in the area in question. It must be consulted on all questions affecting general practice.

Panel Committees are composed of registered medical practitioners elected by panel practitioners. The Committees number twenty to forty, but this may be increased by one-fifth. At least three-fourths of the Panel Committee must be panel practitioners. Panel Committees must be consulted as to the schedule of prices for drugs and appliances, and have power to inspect chemists' accounts, and, along with the Pharmaceutical Committee, are responsible for the checking of excessive or extravagant prescribing. Complaints by one panel practitioner against another panel practitioner must be dealt with by the Panel Committee.

Pharmaceutical Committees, equal in membership to one-fifth of the Insurance Committee, are elected for each county and county borough (burgh in Scotland) by those on the "list of chemists" for each area. Any chemist on the Register of Chemists and Druggists is eligible for election in England and Wales, and other persons may be nominated, but at least two-thirds of the members must be pharmacists. Non-dispensing contractors are eligible for election in England and Wales. The Pharmaceutical Committee must be consulted by the Insurance Committee in regard to the supply of drugs and appliances to insured persons and fixing prices. Its decision as to prices must be accepted by panel chemists, and it has power to inspect accounts and reduce or disallow items therein. It deals with complaints by one panel chemist against another, and appoints the chemist members on the Pharmaceutical Service Sub-Committee and, through the latter, on Joint Services Sub-Committee. The Committee is entitled to make representations to the Commissioners for the removal of persons from the list of chemists.

Pharmaceutical Insurance Conference consists of delegates from local Chemists' Associations. It elects seven members of the Executive of Local Associations.

Executive of Local Associations, consists of these members, six members appointed by the Pharmaceutical Council, two representatives of bodies corporate, the President and Secretary of the Pharmaceutical Council *ex officio*. Its main duty will be the drawing-up of the Tariff and making such arrangements as possible for pricing and checking of Insurance prescriptions; to consider and report on such other matters as are referred to by the Conference.

Pharmaceutical Insurance Committees (England and Wales) consist of the pharmacist members of Pharmaceutical Committees. They are sub-committees of the local Pharmaceutical Associations.

Local Pharmaceutical Associations (England and Wales) cover an area coterminous with that of the local Insurance Committee (*i.e.*, for each county and county borough). Other Associations are to be affiliated with these Federated District Associations. Each local Association elects delegates to a Pharmaceutical Insurance Conference in the proportion of one for an area with a Pharmaceutical Committee of eight members or less, two for a Pharmaceutical Committee of nine to twelve, and three for a Pharmaceutical Committee of thirteen to sixteen. A scheme for constitution of the Executive of Local Associations on a territorial basis is to be put before the next Conference.

Local Associations Committee is a Sub-Committee of the Pharmaceutical Councillors. It sends information direct to Local Associations and convenes the "Insurance Conference."

Pharmaceutical Council consists of twenty-one members elected by the members of the Pharmaceutical Society of Great Britain.

Insurance Act Dispensing.

A Weekly Record of events and decisions concerning Chemists' Interests in Medical Benefit administration and practice.

Anticipation and Realisation.

Scotland.

The Northern Chemist danced a fling,
And "hooched" and "hoched" for aye, mon,
He saw the wealth the Act would bring
In spate, just like the Spey, mon.

Now, hand and foot he's shackled fast,
He's lost both sword and hilt, mon,
And "Profit! not," cries he, aghast,
"Enough to buy a kilt, mon."

Reports from Local Centres.

With special reference to the supply of medicines and appliances. See also Winter Session.

Aldershot.—A complaint by an insured person that he was unable to obtain medicine from any chemist between 7 P.M. and 10 P.M. on January 21 came before the District Insurance Committee on February 19. It was stated that the old arrangement of chemists' services from 7 P.M. to 10 P.M. had been withdrawn, and a new service from 8 P.M. to 9 P.M. substituted. In the case in question the assistant, not quite understanding the arrangement, was not at the pharmacy at 8 P.M., but he was sent for, and was at the shop at 8.15 P.M., the patient who fetched him and three others obtaining medicine. Mr. H. L. Allen, chemist and druggist, pointed out that some difficulty attended the first start of the new arrangement, because they could get no authority to print the new cards announcing hours of attendance. If he had not had this done on his own initiative they would have had no cards at all, and consequently no service, through the Committee's own fault. The General Purposes Committee recommended that as the special service had been withdrawn by the chemists the cost of the printing the new cards should not be borne by the Committee; but, at Mr. Allen's request, the matter was referred back.

Birmingham.—Replying to a "Panel Chemist," who complained that chemists suffer more than any other body under the system carried on in Birmingham, the editor of a local paper points out that the accounts for the first three quarters were paid in full, but the Committee were unable to pay more than an instalment on account of the fourth quarter's account pending the receipt from the Commissioners of an advice of the amount finally credited. The Committee is conducting an inquiry into the allegation of excessive prescribing of medicines by panel doctors.

Canterbury.—A long discussion ensued at the meeting of the Insurance Committee on February 17, following the statement by Mr. Harris that it was estimated that there would be a shortage of about 60*l.* in the total funds for paying chemists' accounts. The Medical Sub-Committee were of opinion that some suggestion should be made for paying chemists the full amounts to which they were justly entitled, as it was not in their province to refuse to make up any Insurance prescription. Mr. F. West said the Finance Sub-Committee had instructed the Clerk to write to the Insurance Commissioners requesting an extra sum of money, so as to pay chemists in full. The Sub-Committee thought that the chemists were being treated rather shabbily. Most of the deficiency was due to the heavy first quarter. The Clerk, in answer to a question, said no reply had been received from the Commissioners. He could not see where the Commissioners had any further fund to get the 60*l.* from. The deficit could be carried forward to next year. No action was taken in consequence of the absence of a reply from the Commissioners. It appeared that the 22,492 prescriptions had been dispensed at an average cost worked out at 7⅛*d.*

Castleford (Yorks).—The West Riding Insurance Committee on February 17 informed the local District Committee that the one-mile limit in rural areas ought to be measured in a straight line, and that, owing to chemists' claims, doctors should not dispense for any person residing in Castleford, Glass Houghton (including the colliery buildings, but with the exception of Rock Terrace), Cutsyke, and Whitwood. The Committee resolved that the mile radius be adhered to, but that the limit ought not to be measured in a straight line. They also expressed the opinion that insured persons would have no difficulty in obtaining drugs, etc., from chemists on the panel.

Dumbartonshire.—The County Pharmaceutical Committee met in Glasgow on February 18, Mr. John Weir presiding. Mr. A. T. Campbell (Hon. Secretary) reported that at the meeting of the Insurance Committee on February 7 application for ½*d.* per insured person for administration expenses was agreed to, and the definition of rural areas was passed, both being sent to the Commissioners for approval. It was also reported that there are 24,705 insured persons in the county, and for nearly 3,000 of these doctors receive capitation-fees for drugs. There were 34,689 prescriptions dispensed during the year, and 1,174*l.* 4*s.* 8*d.* (*plus* 10 per cent. deducted till accounts are checked) was paid to chemists. The Secretary was instructed to write to the Insurance Committee requesting early payment of this 10 per cent. Mr. John Weir (Clydebank) and Mr. Andrew T. Campbell (Alexandria) were appointed for the county to the General Council of panel chemists (Scotland).

Dundee.—It was reported at last week's meeting of the Insurance Committee that the number of prescriptions during the past four quarters had been 146,861, the total cost being 6,152*l.*, which works out at an average cost per

prescription of $10\frac{1}{10}d$. Chemists have been paid 5,535*l.*, leaving 617*l.* due.

Edinburgh. Chemists have been paid 75 per cent. of their accounts for the month ending February 15. The balances on the accounts for October, November, December, and January are still outstanding. The Clerk to the Insurance Committee has issued a circular-letter to panel doctors, pointing out that the space on prescription forms reserved for index marks is not being used, "with the probable result that drugs which ought properly to be a charge on the Sanatorium Fund may be included in the accounts against the Drug Fund." To check this "irregularity" the doctors have been requested "to note the following instructions as to index marks." [These include a diagonal stroke on prescriptions containing only listed drugs, a cross on those medicines containing ingredients not on the Drug Tariff; "St.," abbreviation for stock on orders for emergency dressings; V., for visitors on prescriptions issued to temporary residents; and D., for prescriptions under domiciliary treatment for tuberculosis.] The list of emergency drugs and appliances consists of six 4-yard open-wove bandages (two each 2 in., 3 in., and 4 in. wide), six 6-yard domette bandages (three each $2\frac{1}{2}$ in. and 3 in. wide), one 6-yard roll of gauze (36 in. wide), $\frac{1}{4}$ lb. boric lint, 1 lb. cotton-wool, $\frac{1}{2}$ square yard gutta-percha tissue, one 1*s.* spool of adhesive plaster, $\frac{1}{2}$ litre lysol (at 1*s.* 9*d.*), $\frac{1}{2}$ oz. carbolic acid, and 2 oz. tr. iodi.

Flintshire.—The Insurance Committee has decided to ask the doctor on the panel who had issued what appeared to be "needlessly expensive and even extravagant prescriptions," for his observations in regard thereto.

Glamorgan.—The statistics regarding chemists' accounts for the eleven months ending December 14, 1913, are: Number of prescriptions, 418,392; amount of accounts as rendered, 14,306*l.* 7*s.* 10*d.*; average cost, approximately, 8.25*d.* The amount disallowed by the Pharmaceutical Standing Committee amounts to 217*l.* 9*s.* 11*d.* during the first six months. The amounts paid to doctors for dispensing were: First three quarters, 2,451*l.*; estimated for last quarter, 1,000*l.*; and emergency dispensing, 11*l.*; a total of 3,462*l.* Institutions have been paid 2,050*l.* The Drug Fund amounts to 17,023*l.*, and the claims upon it to 21,554*l.*, requiring 4,529*l.* to be taken from the Drug Suspense Fund. Approximately, 1,146*l.* is carried forward. The average cost of prescriptions has been gradually increasing, from 7.46*d.* in April 1913 to 8.86*d.* in December 1913. It is evident that chemists are in great danger of being discounted this year. An analysis of prescriptions from various doctors in populous districts gave the following results:

	Number.	Average cost.		Number.	Average cost.
Dr. A.	792	$7\frac{1}{2}d.$	Dr. E.	494	$10\frac{1}{2}d.$
Dr. B.	407	$8\frac{1}{4}d.$	Dr. F.	96	$10\frac{1}{2}d.$
Dr. C.	423	$8\frac{1}{2}d.$	Dr. G.	357	$11\frac{1}{4}d.$
Dr. D.	156	$9\frac{1}{4}d.$	Dr. H.	633	1*s.* $0\frac{1}{2}d.$

Gloucester.—Pending the checking of the prescriptions, chemists are to be paid 396*l.* 10*s.* on their accounts, amounting to 400*l.* 12*s.* $1\frac{1}{2}d.$ Mr. A. J. Wells has been appointed Chairman and Mr. W. H. Hampton Secretary of the Borough Pharmaceutical Committee.

Hertfordshire.—At the meeting of the Insurance Committee on February 23, the Committee's accountant reported that the Pharmaceutical Committee had submitted an estimate of 93*l.* 3*s.* for its administrative expenses for the six months ending July 1914. This estimate included the payment of members to meetings (5*s.* for each attendance, *plus* third-class travelling), amounting to 30*l.* It was stated in the report that such payments could not be allowed, there being no specific statutory body authorising such payment. The estimate also included cost of checking of prescriptions 40*l.*, and payment to the Secretary 10*l.*, no objection being raised to either of these payments. The estimates are to be submitted to the Panel Committee and to the Commissioners for approval.

Kilmarnock.—At last week's meeting of the Burgh Insurance Committee the Medical Benefit Sub-Committee recommended that in no case should repeat prescriptions be used where the original prescription had been written during the current quarter. It was reported that 4,655 prescriptions were dispensed last quarter, at a cost of 127*l.* 18*s.* $5\frac{1}{2}d.$, an average cost per prescription of 6.595*d.*, and an average cost per insured person of 2.58*d.* Mr. Charles Muir, in moving the adoption of the minute, said that, acting along with the doctors and chemists in regard to repeat prescriptions, they had come to something like a compromise. No repeats are to run from one quarter into another. He thought that would obviate the difficulty which had been experienced. Mr. T. T. Wallace said the arrangement might be a compromise, but he thought it was not fair to tie up insured persons even for three months to a particular chemist. They ought to have free choice of chemist. In reply to this it was stated that the chemists had agreed that when a repeat prescription is taken to another chemist to be dispensed the original prescription will be handed over when applied for. After some further remarks the recommendation was agreed to.

Kincardineshire.—At a meeting of the County Insurance Committee at Stonehaven on February 21, a communication was read from the Insurance Commissioners as to capitation payments to doctors who dispense, and it was moved from the chair that the doctors be allowed to dispense on a capitation basis only in cases where the persons live at least one mile from a chemist and have difficulty in obtaining drugs. Provost Booth (Bervie) thought this would be playing into the hands of the doctors; and Mr Donald thought a person might live over a mile from a chemist, yet would prefer to get his medicine from a chemist. The matter was therefore referred to the Joint Services Sub-Committee.

Leeds.—The Insurance Committee on February 19 on the recommendation of the Medical Benefit Sub-Committee, refused to allow a supply of rheumatism phylacogen owing to its costliness. The Chairman of the Sub-Committee (Mr. John Buckle) remarked that the Drug Fund was in a delicate condition, and while they would be glad to sanction such treatment, they could not do so just now. Dr. Ewing, who had made the request for the treatment said that under the new contracts an extra charge for the vaccine treatment was not allowed. He added that the treatment had proved remarkably successful, and it was a pity that poor people should not now be able to take advantage of it. The cost per dose of the remedy was from 2*s.* 6*d.* to 11*s.* 9*d.*, and the total cost of treatment was from 2*l.* to 4*l.*

London.—The Insurance Committee on February 26 passed payments to chemists of 44,661*l.* from the Drug Fund. It was reported that the Panel Committee had been completed. A statement relating to the medical year ended January 11, attached to the report of the General Purposes Sub-Committee (No. 1), in connection with the particulars to be submitted to the Departmental Committee inquiring into malingering, contains the following paragraph:

> 11. As to whether representations have received to the effect that there is delay on the part of chemists in dispensing prescriptions.
>
> In the cases of complaints brought to the notice of the Committee as to delay on the part of chemists in dispensing prescriptions, these have as a rule been settled to the satisfaction of the complainants. The Committee have no evidence that the necessity of taking the prescription to the chemist leads to sickness claims which would not be made if the practitioner dispensed his own medicines, or that insured persons fail to take to the chemist the prescriptions received from the doctors.

This also shows that the greatest number of insured persons on a panel doctor's list is 5,177, with an average number of 909 on a panel of 1,475 doctors. The number of persons who have not yet chosen a method of medical treatment is 228,000. Changes of doctor have been made by 7,480 insured persons during the year, and 12,439 at the end of the year. The report of General Purposes Sub-Committee (No. 2) deals with the examination of chemists' accounts. It states that both the Panel and Pharmaceutical Committees require these for examination, and adds:

> It is questionable whether it is the intention of the regulations that, after an examination by the Pharmaceutical Committee, a further examination should be made either by the Panel Committee or the Insurance Committee, or by both.
>
> Unless a complete examination is made by the Pharmaceutical Committee, the Panel Committee would hardly be prepared to accept as very satisfactory a report from the Pharmaceutical Committee after a partial examination, and we think that the Insurance Committee would hardly feel justified in crediting sums to chemists in accordance with accounts rendered after such an examination. Further, the intentions of the regulations themselves will not be carried out unless a systematic examination is made of all accounts submitted.

After pointing out the interests of the three Committees as regards checking prescriptions, it is stated that the cost of examination of accounts by a Joint Committee would be between 2,000*l.* and 3,000*l.*, of which each Committee would contribute one-third. The General Purposes Committee recommended the adoption of the following scheme:

> *Scheme prepared by the Pharmaceutical Committee for the County of London, the Panel Committee for the County of London, and the Insurance Committee for the County of London, for the appointment of a Joint Committee for the examination of the accounts furnished by chemists and other persons for the supply of drugs and appliances to insured persons under the National Insurance Acts, 1911 to 1913.*
>
> (i.) A Joint Committee of eight members shall be appointed, consisting of two representatives of the Pharmaceutical Com-

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o representatives of the Panel Committee, and four
ives of the Insurance Committee, to examine the
urnished by persons supplying drugs and appliances to
rsons under the provisions of the National Insurance
to 1913, and of any regulations made thereunder, and
ination shall be in substitution for any authorised or
examination expressed or implied to be made by any
under the National Insurance Acts, 1911 to 1913, or
lment thereof, or any regulations made thereunder.
Joint Committee shall make reports to the Insurance
at least once a quarter as to the examination of the

e Pharmaceutical Committee, the Panel Committee, and
ance Committee shall contribute equally towards the
of the Joint Committee, provided that estimates of ex-
are submitted beforehand for the approval of each
, if so required.
e Pharmaceutical Committee shall accept the accounts
d by the Joint Committee, and shall make a report
the Insurance Committee accordingly.
Panel Committee shall accept the accounts furnished to
ance Committee in accordance with the recommendations,
ade by the Pharmaceutical Committee, and shall inform
ance Committee accordingly.
he Insurance Committee shall credit sums to persons
drugs or appliances in accordance with the reports made
Pharmaceutical and Panel Committees on the accounts
by such persons.
The Joint Committee shall be appointed in the first
for the medical year 1914 and thereafter as may be
d.
The appointment of the Joint Committee may be ter-
by either the Pharmaceutical Committee, the Panel Com-
r the Insurance Committee giving three months' notice
ffect to the other Committees, provided that such notice
take effect at a date earlier than the end of the medical
14.
he Joint Committee shall undertake as soon as possible,
irect employment of the necessary staff, the examination
accounts furnished by persons supplying drugs and
s to insured persons.

r the new scheme the Joint Committee will take
e checking staff, which up to the present is part
nsurance Committee's finance department, and will
checking on exactly similar lines as under the
ce Committee. The original idea put forward on
of the Pharmaceutical Committee was to price, as
check, prescriptions, so that chemists would be
of this task, and that the work be done by a
g staff under the control of the new Executive of
Associations. The Insurance Committee will not
o this latter arrangement at present, but has pro-
o consider it again at a later date.]

F. Coysh (Chairman of the General Purposes Sub-
ittee) in answer to a question, expressed the opinion
e scheme would save the Administration Fund of
urance Committee the difference between 800*l.* and
the assumed cost of checking a year's prescriptions.
port was adopted without discussion after a verbal
ment had been made to paragraph vi. (the italics
stead of "Joint Committee").—The Pharmaceutical
Sub-Committee met on the same afternoon to in-
te two complaints.—The County Pharmaceutical
ttee met at 17 Bloomsbury Square, W.C., on
ry 17, when all the members except Mr.
(absent through illness) were present. The
s dealt with included applications to the Insurance
ittee by an institution and by a general practitioner to
drugs, etc. The Secretary was instructed to investi-
e conditions of the pharmaceutical service in the im-
e neighbourhood of the two applicants. It was decided
rm the Insurance Committee that certain chemists had
sed their willingness to supply certain homœopathic
nes (discs, etc.), provided that each be furnished with
of such remedies. The Pharmaceutical Committee
dertaken to inform panel chemists of changes in the
l list. The Sub-Committee appointed to consider the
ours pharmaceutical service presented their report,
fter considerable discussion it was agreed to forward
llowing resolutions to the Insurance Committee and
anel Committee:

That the hours for dispensing prescriptions should appear
t the name of each chemist on the Panel about to be
bed, such necessary information to be obtained by the
nce Committee.
That only prescriptions marked "urgent" by the doctor
be dispensed after 9.30 P.M.
That such prescriptions should carry a dispensing-fee of 6*d.*

That Panel lists shall be available at all police stations.

estions are to be forwarded to the Insurance Committee
ding the panel list, to be issued at an early date. It
decided to ask information from the Insurance Com-
e as regards the supply of tuberculin. A General Pur-
Sub-Committee was appointed as follows: Messrs.
. Allen, G. W. Hatfield, J. Keall, J. A. Hayes, J. Y.
weather, A. H. Jenkin, W. B. Trick, and the Secretary (Mr. G. A. Tocher). A Finance Sub-Committee was also constituted of the following: Messrs. J. Keall, J. A. Thompson, R. E. Lownsbrough, J. Murison, and the Secretary. A report from the Executive Committee of the London County Pharmacists' Association concerning excessive prescribing was referred to the General Purposes Sub-Committee.

Manchester.—The Insurance Committee at its last meeting again discussed a motion as to the advisability of establishing locally a full-time medical service for insured persons. Mr. E. Lloyd Jones (Chairman of the Finance Sub-Committee), who moved that the Medical Benefit Sub-Committee investigate and report before next September, argued that the Insurance Committee must have the control of the doctors, and not the doctors the control of the Insurance Committee. At present doctors could forbid the prescribing of certain drugs without consulting the Insurance Committee. He unhesitatingly said that the insured persons in Manchester were not getting from very many doctors the proper attention to which they were entitled. The Manchester medical system had been a failure. In substitution for it there ought to be a full-time service and a better distribution of the doctors, so that patients could receive prompt attention, and not have to wait three or four hours in a surgery. The Committee would then be able to control the drugs to be allowed and the quality of them. After some discussion, Mr. Lloyd Jones withdrew his motion in favour of the following amendment, which was unanimously adopted: "That the Medical Sub-Committee be requested to investigate and report not later than September next on our present medical system, and if the Manchester system is found unsatisfactory to recommend some improved system." Mr. H. W. Irwin, who moved the amendment, suggested, as a half-way house to a State service, the desirability of setting up in congested areas a kind of dispensary, where medical men who cared to do so might attend at specified times and visit in the neighbourhood. Or the dispensary might be in charge of a medical officer with assistants.

Merthyr Tydfil.—Payments have been made to chemists of 508*l.* 12*s.* 11*d.*, being 75 per cent. of their accounts as rendered for the quarter ended January 11, as follows: Messrs. D. W. Evans, 39*l.* 19*s.* 8*d.*; E. J. Harries, 27*l.* 15*s.* 7*d.*; R. P. Rees & Son, 46*l.* 14*s.* 4*d.*; John Roberts, 50*l.* 13*s.* 4*d.*; Boots, Cash Chemists, Ltd., 24*l.* 14*s.* 7*d.*; R. R. Davis, 10*l.* 2*s.* 10*d.*; John Francis, 21*l.* 8*s.* 2*d.*; Miss E. W. Harris, 6*l.* 13*s.* 3*d.*; Messrs. T. Jenkins, 48*l.* 6*s.* 2*d.*; H. M. Lloyd, 25*l.* 14*s.* 8*d.*; V. A. Wills, 42*l.* 19*s.* 9*d.*; W. H. Evans, 46*l.* 13*s.* 7*d.*; Pearsons, Cash Chemists, 64*l.* 10*s.* 1*d.*; T. Thomas, 51*l.* 1*s.* 7*d.*; W. G. Williams, 1*l.* 5*s.* 4*d.*

Newcastle-upon-Tyne.—The final meeting of the local Chemists' Panel Society was held in the Hôtel Métropole on February 17, Mr. T. M. Clague presiding over a good attendance. It was decided that, owing to the election of the County Borough Local Pharmaceutical Committee, the Society be discontinued. The meeting pledged itself to help in every way possible the Newcastle and District Pharmacists' Association, and a resolution was carried to that effect. Votes of thanks were accorded to the President and Hon. Secretary (Mr. J. Elder).

Plymouth.—The Plymouth, Devonport, and Stonehouse District Association of Pharmacists has sent a resolution to the Medical Benefit Sub-Committee, "that as soon as may be possible after all the chemists on the Plymouth panel have rendered their accounts the Plymouth Insurance Committee make payments on account to them previously to the checking of the prescriptions, the final adjustment of such accounts to be made later." The Sub-Committee recommends that payments be made to chemists as desired up to an amount not exceeding 90 per cent. of the estimated amount available for payment to chemists. The Insurance Committee meets on February 27.

Portsmouth.—The Pharmaceutical Services Sub-Committee has appointed Messrs. A. B. Sparrow and T. A. White as the pharmacist members of the Joint Services Sub-Committee.

Rutlandshire.—The Insurance Committee were informed on February 19 that 497*l.* 9*s.* 1*d.* had been expended from the Drug Fund during the year. The average number entitled to drugs from doctors was 3.804, and from chemists 1.881. Chemists had dispensed 4,731 prescriptions, at an average cost of 5.97*d.*, or nearly 1*s.* 3*d.* per insured person. Payments of 38*l.* to chemists were passed. The estimate for chemists' accounts for the quarter ending April 12 was 40*l.*

Sheffield.—At a meeting of the Pharmaceutical and Chemical Society (p. 80), Mr. H. Antcliffe reviewed the work of the Association's Insurance Committee during the first year of Medical Benefit. Among the many interesting details were the following points: The experiment of allowing panel doctors a fee of 1*s.* 6*d.* for emergency dispensing,

which the Insurance Commissioners thought high, cost 120*l.* for the year, showing that it had not been abused, and the arrangement might well be continued. Early in the year there was reason to believe that dispensing was being done by unqualified persons. Evidence and examples were secured by the Committee of medicines wrongly dispensed and improperly labelled, and in consequence the Insurance Committee informed the unqualified persons on the panel that medicines dispensed by them would not be paid for. Later, accounts were again sent in by these without charging dispensing-fees, but, on the chemists' protest, payment was refused. Use of distilled water in dispensing was insisted upon, but as the panel practitioners were backed up by the local medical officer of health, chemists had to give way to the use of tap-water, with a few exceptions. The unqualified persons on the first chemists' list were described as "druggists," and as the result of objection that this is a protected title of chemists the description has been altered on the new list to "drug-stores." Local chemists had loyally observed the agreement to make no distinction between Insurance and ordinary dispensing. Very few complaints against chemists have been made through the Insurance Committee, and after searching inquiries not a single one of these had been maintained.

Somerset.—The Panel Committee has decide to accept as correct the checking of the staff of the Insurance Committee; 178,000 Insurance prescriptions were issued during 1913. The average cost per insured person amounted to about 1*s.* 8½*d.*

Staffordshire.—The new panel contains the names of 164 chemists and eight firms, against 175 and eight last year, ten chemists having joined and twenty-one withdrawn.

Surrey.—The recommendations to the Insurance Committee at its meeting on February 25 included the payment to doctors of 4½*d.* out of the floating sixpence, the remainder being held over until all the chemists' accounts have been received. The chemists' request that 90 per cent. of their accounts as rendered be paid has been conceded. The payments passed included 15*s.* 3*d.* to Burroughs Wellcome & Co. for tuberculin under Sanatorium Benefit and 840*l.* 11*s.* to chemists, being 75 per cent. of the accounts during the month ended January 11. An item in the establishment accounts was 25*l.* 1*s.* 8*d.* for prescription-books.

West Bromwich.—The second meeting of the Pharmaceutical Committee was held at Messrs. Bullus & Co.'s Pharmacy, 262 High Street, on February 24, with Mr. H. Osborne in the chair. The Secretary was instructed to inquire for particulars regarding the Panel Fund. A model prescription-form was drafted, and directed to be forwarded to the Insurance Committee, along with resolutions regarding "Rep. mist" and doctors specifying particular chemists to panel patients. A request from the Insurance Committee asking for special quotations for dressings in quantity, when supplied to panel doctors for surgery use, was considered, and tenders refused until further information is forthcoming, as the present contract agreement does not permit of any divergence from Tariff prices until next year. The compilation of a local Formulary has not yet been commenced.

West Hartlepool.—Chemists have received payment of 90 per cent. of their accounts for quarter ended January 12, 1914. Mr. A. H. M. Purse (Sunderland), who audited the accounts, makes the following observations in his report: "There have been dispensed in your area during the period October 15, 1913, to January 11, 1914, 18,127 prescriptions, costing 600*l.* 2*s.* 9½*d.*, chargeable as follows: 17,804 to Drug Fund, 585*l.* 0*s.* 8*d.*; 316 to Sanatorium Fund, 14*l.* 15*s.* 4½*d.*; seven to Central Drug Fund for temporary residents, 6*s.* 9*d.*; 1,876 prescriptions cost over 1*s.* each. The net amount of deductions was 3*l.* 14*s.* 7*d.*; the average price per prescription (Drug Fund only) was 7.88*d.*, and the average cost per insured person 6.2*d.* The following are among the expensive or proprietary articles prescribed: Tabloids; bipalatinoids; P., D. & Co.'s inhalone, taka diastase; Hewlett's preparations (a great many of these, some very expensive); aspirin and aspirin tablets (forty-eight and sixty ordered at a time); urotropine; veronal; formamint tablets; Duncan, Flockhart & Co.'s ung. picis sed.; Gamlen's mustard and camph. oil; glyco-thymoline; salvarsan; tetanus antitoxin; Angew's catarrh-powder; protargol; lin. methyl. salicyl. co. (8 oz., 4*s.* 6*d.*); evaporating lotion containing S.V. rect. instead of meth.; spt. camph. and rectified spirit ordered in liniments; tr. iodi in 8-oz. quantities; bandages and dressings ordered in large quantities; tinctures very liberally prescribed in mixtures 1½ oz. and 2 oz. in 8-oz. mixtures very frequently, some cases 4 oz." Mr. Purse states that his report would not be complete without some reference being made to the average price per prescription, and the high average cost per insured person, but it has been considered unnecessary to comment further at present, as it is anticipated that the Medical and Pharmaceutical Committees will, after considering the information already given, devise some means of reducing the heavy expenditure on drugs, etc., in their area. The report has been forwarded by the Insurance Committee to the Medical and Pharmaceutical Committees for their consideration.

Wigan.—The whole of the chemists in the town are on the panel to supply such medicines as are required for 31,559 insured persons. A rota has been arranged for Sundays and holidays, which is fulfilling its purpose satisfactorily. Prescriptions on the whole are well-thought-out specimens of prescribing, not many stock or proprietary medicines being introduced. The untiring efforts of Mr. H. S. Phillips (Chairman) and Mr. T. H. Winstanley (Secretary of the Pharmaceutical Committee) have also eliminated scrips for disallowed articles. At a meeting of representatives of doctors and chemists, arranged late last year, the points raised included an account for prescriptions dispensed by a doctor during the first quarter, of which no record had been kept. This the chemists' representatives stoutly opposed, on the simple grounds that if a chemist had sent in a similar account he would have been refused payment. They suggested that if the Drug Fund at the year-end is sufficient to meet chemist's accounts this account should be gone into and arranged. The Secretary of the local Medical Association suggested that arrangement be made for supplying splints, helmet ice-bags, bronchitis-kettles on loan, at a small fee to be agreed upon, for insured persons. The doctors were asked to mark Sanatorium prescriptions clearly, as they otherwise lead to depletion of the Drug Fund. It was also suggested that elastic-web bandages, included in the new Tariff, should be ordered as sparingly as possible, to keep the Drug Fund within bounds. The chemists were instructed to prepare a list of Tariff equivalents for drugs with trade-mark names. It was decided that, unless specially ordered by the doctor, "aq. font." is to be used instead of aq. dest. Repeat prescriptions have been a great bugbear to local chemists of this district, and it was proposed that doctors should write prescriptions in full at the commencement of each month. The deficit in the Drug Fund is almost entirely due to the fact that during the last month of the year there had been endemic sickness. The doctors have promised to remedy at once the excessive prescribing of expensive liniments such as lin. capsici, and not to order trade-marked drugs.

Wolverhampton.—The Pharmaceutical Committee have appointed Messrs. Coleman, Phillips, and Willcock to the Pharmaceutical Service Sub-Committee of the Insurance Committee.

Notes.

Ear-syringing is considered by the Medical Service Sub-Committee of the London Insurance Committee to come within the purview of treatment "properly undertaken by a general practitioner of ordinary professional competence and skill."

"Chemists Faced With Ruin" is how the "Daily Dispatch" of Manchester referred on Tuesday to the Manchester situation, which also was mentioned in a full-dress party debate in the House of Commons on Wednesday evening.

Insurance Statistics.—The amount paid to Insurance Committees up to December 31, 1913, under Medical Benefit amounted to 4,502,000*l.* and for Sanatorium Benefit 801,000*l.* On January 11, 1913, the number of insured persons in England and Wales was 11,547,000, the total contributions to the National Health Insurance Fund during the medical year being 15,055,127*l.*

The National Insurance Commission (England), in a letter read to the Rotherham Insurance Committee on February 16, stated that the Commissioners considered that details of doctors' and chemists' accounts "should be considered strictly private, and that the Committee should take steps to ensure that they should not either of intention or by inadvertence be allowed to come to the notice of the general public."

An Amusing Incident happened the other day at an Insurance meeting up North. A medical man present had a grievance to ventilate. It was a fact, he said, that a patient had received a prescription for a pound of cotton-wool, and the parcel supplied was found to be three ounces short. The suave gentleman who represented the chemists was not at a loss for a moment. "Ah, yes," he said, smilingly and evidently thinking of something else. "But did you allow for loss of moisture?" The doctor was taken off his guard. "Well, no," he replied, "I didn't. I quite forgot that." Harmony was restored, and all was calm and bright. So true is it that a soft answer turneth away wrath.

WINTER SESSION

Meetings of Trade Associations.

e reported under "Insurance Act Dispensing" when the subjects pertain chiefly to that Section.

dfordshire.—A meeting of pharmacists of Bedfordshire held at Franklin's Restaurant, Luton, on 19. There was a good attendance, and Mr. Bedford, was voted to the chair. The Chairman ged the need for an Association to include all the n the county, particularly with reference to nego- nd arrangements with the Insurance Committee. hemists present supported his remarks. It was nanimously to form the "Bedfordshire Pharma- ssociation." The following were elected as officers Association: *President*, Mr. J. H. Webb (Luton); *ident*, Mr. E. P. Anthony (Bedford); *Secretary urer*, Mr. W. White (Luton); *District Secretary*, erkins (Bedford); the Executive Committee to be maceutical (Panel) Committee for Bedfordshire. al subscription was fixed at 2*s.* 6*d.* The Secretary White, Market Hill, Luton) is prepared to receive ns for membership from chemists in the county.

dge District Meeting.—A district meeting by the Pharmaceutical Society was held at the Cambridge, on Thursday, February 19, at three Representatives from Baldock, Bedford, Cotten- ddenham, Rushton, St. Ives, Somersham, and m were present, in addition to the strong gather- embers of the Cambridge and District Pharma- Association. Mr. A. Sydney Campkin (Vice- of the Society) was in the chair, and the Secretary the meeting on pharmaceutical topics in general rance problems in particular. Mr. E. S. Peck cially in place of Mr. Neathercoat. Tea followed.

rdiff.—A meeting of the local Chemists' Association d at the Angel Hotel, Cardiff, on Wednesday, 25, under the presidency of Mr. W. R. Williams. stion of allowing members of the Barry Associa- etain their membership of the Cardiff Association idered, and on the motion of Mr. Leo Joseph, J.P., agreed: "That pharmacists resident outside the Insurance area who are members of another local eutical Association may be admitted as affiliated of this Association on payment of an annual con- of 2*s.* 6*d.*" It was decided to grant a guinea to ry Association towards their expenses. A letter l from Mr. W. G. Duck on the question of obtain- extension of the closing hours the week before s, so that chemists might enjoy the privileges by the fancy-goods trade. The Secretary explained tion, and said the change could only be effected by the present closing order annulled and a new one ed. Mr. A. Hagon, Mr. Leo Joseph, and Mr. having spoken, the suggestion was put as a reso- nd carried. Mr. Jabéz Jones gave a brief *résumé* work of the Cardiff Chamber of Trade. On Mr. suggestion, it was decided to have motor-drives the summer months instead of whist-drives now.

ssex.—The annual meeting of the County of Essex Asso- of Pharmacists was held at 16 Bloomsbury Square, W.C., on February 18. The President (Mr. J. H. vs), having reviewed the work of the Association from mencement, presented the report of the delegates Conference last month. In bringing forward his -sheet, the Hon. Treasurer (Mr. E. A. Holloway) out that many of the expenses incurred in the year would now fall upon the Pharmaceutical Com- Fund, when allowed. The balance-sheet was adopted. ort of the Hon. Secretary (Mr. C. Goode) contained teresting details. The Association had practically hemist in business in its area as members. The Insur- ommittee spoke highly of chemists as a body, and work. Complaints received during the past twelve related chiefly to medical men in some districts panel patients to certain chemists, or to chemists uring to cover two shops with one qualification. He that this publicity would not be lost, as the Phar- ical Committee had undoubtedly power to deal with ses. The report was adopted. The election of officers in the retiring officers being unanimously re-elected, thanks being expressed for the work they had done. nual subscription was again fixed at 2*s.* 6*d.* per shop, embers were reminded that this is now due. It was to fall into line with the new scheme of organisation by the conference, the Pharmaceutical Committee ng both the General Purposes Committee and the aceutical Insurance Committee of the Association. The County Association intends to encourage the formation of more District Associations. Messrs. Freeman, Goode, Holloway, Matthews, and Rundle were appointed a Special Committee to carry through arrangements in London of a dinner under the auspices of the Association. An interesting discussion took place upon the suggestion of issuing a monthly pamphlet to all members. The matter was left in the hands of the Hon. Secretary (Mr. C. Goode) to see if the publication could be made self-supporting.

Glasgow.—At the monthly meeting of the Glasgow and West of Scotland Chemists' Association on February 19, Mr. Stanley White, Ph.C., of Messrs. Parke, Davis & Co., lectured on *Bacteriology in Relation to Modern Therapy*. Mr. White pointed out that it is to the interest of pharmacists as distributors of medicine to make themselves familiar with the remarkable developments medicine has made and is making along biological lines, and said that with regard to immunity against infection by disease-germs, the use of serums, vaccines, and phylacogens has become established as therapeutic agents of the utmost value. Recent work has shown that the views of Ehrlich, who considers that the body fluids are the chief protection against disease, and of Metchnikoff, who believes that germs are devoured by phagocytes, are not necessarily antagonistic. Neither view is complete, yet both are founded on certain demonstrable facts. Mr. White then dealt with the three types of immunity—natural, inherited, and acquired. The means of artificially inducing immunity by means of vaccines or anti-toxins were outlined, and mention made of the various tuberculin treatments. Of the two kinds of vaccines, preventive or prophylactic vaccines are used for the prevention of infection, while therapeutic vaccines are used for the treatment of infections. Vaccine therapy is being based on the stimulation of the natural defensive mechanisms of the body. This led to Sir Almroth Wright's opsonic theory and his methods of determining the opsonic index of human blood, as well as the preparation of autogenous and stock vaccines, which are emulsions of dead bacteria standardised to contain a definite number of organisms. Mr. White also referred to the introduction of "Phylacogens," which, he claimed, had well-nigh revolutionised the treatment of "such diseases as rheumatism and a host of other microbial infections." Out of more than 7,000 cases treated with these products, no less than 83 per cent. had made recoveries, a record, he believed, unmatched by any other therapeutic agent. The name, derived from two Greek words, means "phylaxin producer," the term phylaxin having been applied to a defensive proteid found in animals which have acquired an artificial immunity to a given infectious disease. The method of preparation was originated by Dr. Schafer, of California. Phylacogens, unlike vaccines, contain no micro-organisms in suspension, and differ from serums in that they are not developed in the body of an immunised animal. They are best described as sterile aqueous solutions of metabolic substances generated by bacteria grown on suitable culture-media. Each particular phylacogen represents the product of a mixture of germs, representing the metabolic product of the bacterium chiefly responsible for the disease, and also those other bacteria which play an associated part in the same disease and sometimes assume the chief *rôle*. Rheumatism phylacogen consisted of equal volumes of mixed infection phylacogen (the base of all phylacogens) and of a pure culture from *Streptococcus rheumaticus* of Poynton and Paine. Each micro-organism is grown on artificial culture-media for a definite length of time, the bacteria killed by heat, ½ per cent. of phenol added to the solution, which is filtered through a porcelain candle. The mixed infection phylacogen is derived from a wide variety of pathogenic micro-organisms. Phylacogens are administered hypodermically, preferably by subcutaneous injection. The concluding portion of the lecture, illustrated by numerous lantern-slides, consisted of a description of the preparation of serums, especially anti-diphtheria serum. On the motion of Mr. Guthrie, a very hearty vote of thanks was accorded to Mr. White for his instructive lecture.

Leigh.—The annual meeting of the Leigh Chemists' Association was held at the Borough Café on February 11. Mr. Hampson (President) was supported by ten members and Mr. Davies (Secretary). The officers elected for the ensuing year were: *President*, Mr. J. Wallwork (Tyldesley); *Treasurer*, Mr. Russell; *Secretary*, Mr. A. T. Thompson; *Committee*, Messrs. Hampson, Stout, Davies, and Robinson.

Liverpool.—The new officials for the ensuing year for the Liverpool Chemists' Association have now been elected. In addition to the President (Mr. H. Humphreys Jones, F.C.S.) and the Secretary (Mr. John H. Robinson), already elected, the following have been appointed: *Vice-President*, Mr. W. F. Laycock; *Treasurer*, Mr. W. Wellings; *Secretary, Education Committee*, Mr. Harold Wyatt: *Secretary, Library and Museum Committee*, Mr. T. S. Wokes;

Secretary, Pharmaceutical Insurance Committee, Mr. G.V.C. Last. Both the Business and Organisation Committees have been disbanded, in view of the Pharmaceutical Society's Federation Scheme, the work of these two committees being taken over by the General Purposes Committee (*Chairman*, Mr. H. Humphreys Jones; *Vice-Chairman*, Mr. John H. Robinson; *Secretary*, Mr. Harold Lomax). Entertainments Section, Mr. W. Wellings. A committee has also been formed to deal with a new issue of the Liverpool Chemists' Price-list, which it is hoped to publish in the near future.

London (N.).—A party of sixty members of the North London Pharmacists' Association visited the works of The British Drug Houses, Ltd., on February 19, and by the courtesy of Mr. C. A. Hill and his co-directors were conducted through the works. Refreshments were served afterwards, and congratulations and thanks offered to the directors for a profitable and entertaining afternoon.

London (S.E.).—A meeting of the South-East Pharmacists' Association was held on February 19, Mr. Fairweather (President) in the chair. A paper and demonstration were given on *Sight-testing by Retinoscopy* by Mr. E. G. Price, F.S.M.C. After some introductory remarks on the retinoscope and a comparison between objective and subjunctive methods of sight-testing, Mr. Price showed how to obtain practice by means of a model schematic eye. Hypermetropia, myopia, and astigmatism were dealt with, and the shadow movements explained. A demonstration was then given of the various methods of procedure with a patient. A collection of model eyes and other apparatus, lent by Messrs. Nitsche & Gunther, was shown and explained. A vote of thanks was given to the lecturer.

London (S.W.).—A meeting of the South-West London Pharmacists' Association was held at Stanley's Restaurant, Lavender Hill, S.W., on February 18, the President (Mr. J. Keall) in the chair. There was a fairly good attendance. Mr. Horne then read a paper on a modern method of *Book-keeping for Chemists*. He recommended members to adopt the system of duplicate counter-books, instead of the old-fashioned rough books, and showed how the entries from the counter-books are posted into first a loose-leaf statement book, and next into a similar ledger. A discussion ensued, the President stating that he had used the system advocated for many years. The lecturer received a vote of thanks, and a resolution was passed deprecating the discounting clause in the pharmacists' contract with Insurance Committees, and demanding that it be removed from future contracts.

Manchester.—A meeting of the local Chemists' Assistants' Association was held on February 18 in the Physiological Lecture Theatre of the Medical School of the Manchester University, to hear Mr. Stanley White, Ph.C., deliver his lantern-lecture on *Bacteriology as Applied to Modern Therapy* (see under Glasgow). The lecture was listened to with great interest, especially the descriptions of Messrs. Parke, Davis & Co.'s establishments at Detroit, U.S.A.

Mansfield. The local Pharmacists' Association met on February 25 at the Swan Hotel, Mr. A. R. Jesson presiding. Mr. Dickinson reported on the Local Associations' Conference, and on his experience in the police-court as a defendant in a Shops Act case, commending the value of the C.D.A. It was agreed to send out a letter asking subscriptions for a Parliamentary candidate, a guinea each being suggested (see p. 86).

Middlesbrough.—A meeting of the local Chemists' Association was held at the Grand Hotel on Thursday evening, February 19, Mr. E. Denis Owen presiding, when Dr. J. F. Henry read a paper upon *Idiosyncrasy*. He dealt with the problem of drug and food idiosyncrasy, and went on to describe the phenomenon known to bacteriologists as anaphylaxis. The reaction in the human subject to vaccine treatment and tuberculin administration was compared with the condition of anaphylaxis. After sketching the side-chain theory of Erlich, Dr. Henry instituted a basis of comparison between immunity and the artificial production of hypersensitiveness to diseases of given origin. The peculiar conditions of hay-fever, nettlerash, spasmodic asthma, and horse and cat asthma were shown to be of the nature of anaphylactic conditions. Theories are advanced by some scientists that many infectious diseases bear a relationship to the problem of induced hypersusceptibility. Finally, Dr. Henry speculated upon the possible connection between idiosyncrasy to drugs and anaphylaxis. The paper was greatly appreciated, and Dr. Henry was heartily thanked for it. Mr. Brackenbury, the Association's delegate to the conference held in London on January 14, gave a brief account of the proceedings, and was thanked for his service.

Portsmouth. The annual meeting of the local Chemists' Association was held in the Town Hall on Wednesday afternoon, February 25, under the presidency of Mr. W. A. Bell. The following reports were presented: Treasurer's (Mr. W. R. Atterbury), Trade Section and Entertainment Committee's (Mr. J. W. Rhodes), Pharmaceutical Committee's (Mr. T. A. White), and Secretary's (Mr. A. B. Sparrow). A draft of the new by-laws was considered. The new title will be "Portsmouth Pharmacists' Association," reference to the district being dropped. County members will pay a reduced subscription, and members not on the panel will have no vote on Insurance business. Mr. Bell, in relinquishing the office of *President*, proposed as his successor Mr. C. H. Baker, who was duly elected and warmly acclaimed, an acknowledgment of Mr. Bell's services being prettily voiced by Mr. T. H. Cruse, the senior Past-President. The other offices were filled as follows: *Vice-President*, Mr. T. O. Barlow; *Treasurer*, Mr. G. W. Darling; *Secretary*, Mr. A. B. Sparrow; *Secretary of Trade Section*, Mr. J. W. Rhodes; *Auditors*, Messrs. Egerton and Bailey; *Committee*, Messrs. Atterbury, Bailey, Foster, Harbin, Postlethwaite, Rhodes, and White. Other business included the election of Messrs. W. T. Gorfett (Portsmouth) and Mr. W. J. Roberts (Gosport) to membership of the Association, and the voting of two guineas to the Pharmaceutical Benevolent Fund.

Public Pharmacists.—A meeting of the Public Pharmacists' and Dispensers' Association was held at St. Bride Institute, London, E.C., on February 25, with Mr. Jas. H. France presiding over an attendance of about twenty. The following were elected members: H. Skinner (G.N. Hospital), Fred Coates (Nottingham), M. H. Roots (Godalming), T. Clarke (Mile End), F. W. Abram (Rainhill), and H. Wolff. The evening was devoted to short papers by members as follows: "A Pharmacist in Exile," by Mr. F. E. Bullen; "Notes on Radiography," by Mr. W. F. Kinsman; "The Status of the Poor-law Pharmacist," by F. Noad Clark; "Dispensing for the Resident Insured Staff" and "Odd Notes," by Mr. G. W. Gibson. There was a good discussion.

Scarborough.—A meeting of the Scarborough and North Riding Association of Pharmacists was held at the residence of Mr. G. Whitfield on February 18, Mr. G. F. Meadley (President) in the chair. Messrs. Whitfield and Laverack reported on the local Associations' Conference. Mr. Whitfield gave an account of the first meeting of the North Riding Pharmaceutical Committee, as reported in the *C. & D.* last week. Discussion on a scheme suggested by local traders for the opening of shops on Whit Monday and the substitution of the holiday on another day, the attempt to obtain increased prices for one or two proprietary articles, and other matters of local interest occupied the remainder of the evening.

Sheffield.—The monthly meeting of the Sheffield Pharmaceutical and Chemical Society was held on Wednesday, February 25, the President (Mr. J. Gilbert Jackson) in the chair. There was a good attendance. The President, reporting on the local Associations' Conference in London, stated that this Association's second amendment was lost as the conference considered that there should be a committee of the pharmacist members of the Insurance panel in order to deal with matters which it would not be advisable to discuss before a committee constituted of partly unqualified members. Speaking of the Executive Committee, Mr. Jackson said it was agreed that the ultimate mode of election should be on a territorial basis. After a very exhaustive report, Mr. H. Antcliffe, who accompanied the President, said he could not add much to what Mr. Jackson had told them. He considered that the issue of further working agenda was most difficult to follow, and the original agenda as sent out should have been sufficient to work by, as the mass of printed matter was very confusing as placed before the meeting. The case for a seat on the Committee for public dispensers, many of whom are on the panel, was lost by a large majority. The meeting was very cleverly dealt with, the Chairman, in his apparently innocent and happy manner, mostly kept them well in hand, and to the Society's tune. If they dared to stray he brought in the heavy guns, Messrs. Glyn-Jones and Woolcock, who soon put the misguided members right. Mr. J. P. Norwood (Wath-on-Dearne) submitted a scheme for "the effective organisation of pharmacists in the West Riding." This consisted of the affiliation of "district" and "sub-district" Associations to the Local (County) Association. The "sub-district" Associations would correspond to an area with a district Insurance Committee, and all the members on the panel should be members, but for all purposes other than Insurance work in this area they would be members of the "district" Associations. The "district" Associations would cover both county boroughs and non-county boroughs. [The county borough Associations are already "Local" Associations.—EDITOR.] Subscription to be a minimum of 5*s.* per shop, of which 2*s.* 6*d.* to be paid to the "Local" (County) Association.

each member on the West Riding panel. The Associations would otherwise manage their own and general business, and each would send one ive to the General Purposes Committee of the sociation. The other members of the latter Com- uld be the Pharmaceutical Insurance Committee nty. The meeting generally approved the scheme, decided to send it to the Pharmaceutical Council o take action when the time arrives.

rt.—A meeting of the Southport Pharmacists' ants' Association was held on February 10. Mr. n (President) was in the chair, and there was a dance. Two members were elected, Insurance discussed, and Mr. Righton gave a report of the s at the recent conference of local Association

rhampton.—At the fourteenth annual meeting of erhampton Chemists' Association held on Fe- , Mr. Fellows presiding, the annual report and of accounts were adopted, and the following cted: *President*, Mr. E. C. Hall; *Vice-President*, . Bowdler; *Secretary*, Mr. J. H. Coleman (re- *Treasurer*, Mr. S. Phillips (re-elected); and Dunn, Fellows, Gibson, Warner, and Willcock, of committee. Councillor Willcock proposed, and . Warner seconded, a hearty vote of congratula- r. F. J. Gibson, J.P., upon his appointment as a magistrate. A vote of thanks to Mr. Fellows for e in the chair for the last two years was unani- rried, as well as votes of thanks to the retiring cluding the Secretary. A donation of 3*l.* 3*s* was he Benevolent Fund.

WESTMINSTER WISDOM.

The Week in Parliament.

STMASTERS AND THE NATIONAL INSURANCE ACT.

ng to Mr. Edmund Harvey, the Postmaster- (Mr. Hobhouse) stated on Wednesday that the ental Committee have now submitted a report to he hopes that it will be possible to settle the remuneration for Insurance Act work.

UB-POST-OFFICES AND PUBLIC CONVENIENCE.

ng to Mr. Cowan in the House of Commons on 24, Captain Norton, on behalf of the Postmaster- said that there is no power under the Shops Act open for post-office business during the statutory alf-holiday a non-telegraph sub-post-office carried hop unless it can be certified that the exigencies postal service require that post-office business e transacted during the period in question. He dering the desirability of installing automatic nding machines outside post-offices, but some st elapse before a decision can be reached.

MERCHANDISE MARKS BILL.

asil Peto, M.P., has again introduced his Bill to he law relating to trade-marks and trade descrip- nd among his supporters are Mr. Staveley-Hill, ton Griffiths, Mr. Ebenezer Parkes, and Mr. Page It provides for the marking of goods manufac- utside the United Kingdom as "British Empire or with the words "Non-British" if they are tured outside the British Empire. The marks are nspicuous, and there is a provision regarding the of goods with a deceptive description. The ex- "covering" includes any stopper, cask, bottle, box, cover, capsule, case, frame, or wrapper and ression "label" includes any band or ticket.

FERTILISERS AND FEEDING-STUFFS.

ing to Mr. H. A. Watt on February 24, Mr. on Wood (Secretary for Scotland) stated that in 1912 the Board of Agriculture for Scotland ap- Dr. J. J. Dobbie, F.R.S., to be chief agricultural for Scotland under the Fertilisers and Feeding- ct. Every County Council in Scotland and nine Councils have appointed official agricultural s. In burghs where a Town Council has not ap- or concurred in the appointing an official agricul- nalyst it is provided by No. 1 of the Fertilisers and Feeding-stuffs (General) Regulations, 1907, that the duties of such an official shall be performed by the analyst for the county within which the burgh is situated, or with which it has the longest common boundary.

MALTHUSIAN APPLIANCES.

Mr. Lynch asked the Home Secretary on Monday whether it is an offence to sell appliances favouring what is called race suicide; and, if so, why the police authorities have failed to prosecute in the numerous cases where these appliances are openly advertised and sold in shops in London; whether the sale of these articles is an offence only when associated with the expression of heterodox opinions; and whether he contemplates introducing a Bill to render devout people who sell these articles also liable to penalties.—The Home Secretary replied that there has not been an authoritative decision of the Courts on this question, but he is advised that the sale of such articles is not in itself illegal, though the circumstances in which the goods were sold or offered for sale might be such as to make the proceeding unlawful. The religious beliefs of the seller would, of course, have no bearing on the question.

MANCHESTER PANEL CHEMISTS' ACCOUNTS.

Mr. Godfrey Locker-Lampson asked the Secretary to the Treasury on Monday whether there is a deficiency in the Insurance Drug Fund in the Manchester district to the extent of about 16,000*l.*; and, if so, whether, in consequence, chemists on the panel have only been paid 50 per cent. of their accounts during the three latter months of 1913, and only about 27 per cent. for December, although it was one of their heaviest months; and what the Government propose to do in the matter.—Mr. Wedgwood Benn (replying for Mr. Masterman) said his right hon. friend is informed that the total sums already paid, or in course of being paid by way of advances, amount to approximately 60 per cent. of the total amount of the accounts presented for the year. It is not, however, possible to estimate what further sums will be payable until those accounts have been scrutinised in accordance with the regulations, and the total sums available to the Insurance Committee for the purpose have been finally ascertained.

Mr. Locker-Lampson asked whether the bon member meant that if the accounts did not show a balance the chemists would lose their money?

Mr. Wedgwood Benn replied that whatever happened would be in accordance with the provisions of the Act. (Laughter.) There is no evidence at the present time that the figures given by the hon. member are accurate.

Mr. Worthington Evans: Does the hon. member say that the chemists will be paid in full?

Mr. Wedgwood Benn replied that they must wait until the accounts have been scrutinised before the question can be decided.

Mr. Godfrey Locker-Lampson asked the Prime Minister on Thursday afternoon whether, in view of the anxiety felt by the panel chemists in Manchester on account of the deficiency in the Drug Fund in that district and the non-payment of a large portion of their accounts for 1913, he would give a pledge on behalf of the Government that they would all be paid in full.

The Prime Minister: I have no knowledge of the matter myself, but I understand that no occasion has arisen for such an undertaking as that asked for in the question. The amount of remuneration payable to the Manchester chemists is governed by contract, into which they entered with the Manchester Insurance Committee, and they received the whole sum due to them under those contracts.

Mr. Locker-Lampson asked whether it was the case that the chemists have not been in the least responsible for the nature of the prescriptions ordered by the doctors.

The Prime Minister: I must have notice of that question.

Mr. Byles asked the right hon. gentleman whether he is aware that the chemists in that district, numbering about 150, are really 1,600*l.* deficient [Voices: "Sixteen thousand pounds!"] in money which they have themselves earned during the last year.

Mr. Wedgwood Benn: There is a joint committee going into the question of the accounts.

TRADE REPORT.

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in garbling and the like. Qualities of chemicals, drugs, oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities. Retail buyers cannot, therefore, for these and other reasons, expect to purchase at the prices quoted here.

42 Cannon Street, E.C., February 26, 6.30 p.m.

BUSINESS conditions remain much as previously reported, and distinctly on the slack side. The price changes, which are few, include an advance in American peppermint oil, both in tins and the bottled product. Japanese mint oil, on the other hand, is being depressed in the interests of bears. Menthol is very quiet but no weaker on spot. English castor oil has advanced 10*s.* per ton. New Norwegian cod-liver oil is distinctly easier, a fair yield having attended operations last week, and as usual on a falling market, buyers hold off. Codeine and veratrine have both been reduced by makers. Cocaine is regarded as having touched its lowest, but is very dull. Quinine-makers decided to leave prices unchanged for the present. The average unit paid at the tender on Wednesday was 6.20c., being unchanged. Coca leaves sold at reduced prices at the Amsterdam auction. Star-anise oil is very flat, and cassia oil firm to arrive. E.I. palmarosa is the turn firmer. Lemon oil is again dearer to arrive, prices being wide and irregular. At the quarterly auction cinnamon realised an advance of 1*d.* for fine firsts and seconds. Vanilla at auction sold steadily for good and fine, while foxy was 6*d.* lower. West Indian mace was 1*d.* to 2*d.* dearer, and nutmegs were steady for sound qualities. Turpentine is cheaper, and shellac firmer. The principal changes have been as under :

Higher	Firmer	Easier	Lower
Castor oil (Eng.)	Balsam tolu	Cod-liver oil	Codeine
Cinnamon (worked firsts and seconds)	Chamomiles	Copper sulphate	Pepper (white)
Linseed oil	Citric acid	Opium	Turpentine
Mace (W.I.)	Gum acacia (Sudan spot)	Vanilla (foxy)	Veratrine
Palm oil	Lemon oil		
Peppermint oil (H.G.H.) and Wayne County	Palmarosa oil		
	Rape oil		
	Shellac		
	Soya oil		
	Strychnine		

Cablegrams.

BERGEN, February 26.—Although the weather is propitious, the cod fishing is showing medium results only. The market for finest new non-congealing Lofoten oil is easier at 77*s.* 6*d.* per barrel, c.i.f. terms.

NEW YORK, February 25.—Business in drugs is moderate. Opium is firm at $6.35 per lb. for druggists' by single cases. Peppermint oil in tins is firmer at $3.55 per lb. Mandrake (podophyllum) root is scarce at 10c. per lb. Round buchu is higher at $1.35. Cartagena ipecac. is easy at $1.55. Vera Cruz sarsaparilla is steady at 24c. Both copaiba balsam and cascara sagrada are unchanged.

AMSTERDAM, February 26.—At the Amsterdam tender held on Wednesday the equivalent of 46,510 kilos. quinine sulphate was taken by the makers at the average unit of 6.20 per half-kilo., being the same as at the previous tender. At the auction of pharmaceutical bark held today (Thursday) the equivalent of 1,055 kilos. quinine sold, the prices paid for the bark being from 19¼c. to 52c. per half-kilo. Of Java coca leaves, 1,940 kilos. of alkaloid sold out of 2,108 kilos. offered; the average unit was 15.57c., against 16.26c. per half-kilo. paid in January.

London Markets.

ANISE OIL (STAR) is flat, with "Red Ship" brand offering on the spot at 6*s.* per lb., and to arrive 5*s.* 3*d.* c.i.f. is quoted.

ASAFETIDA.—Some 350 cases of new imports from the Persian Gulf will be offered next week.

BENZOIN.—Sales of Sumatra have been made at 8*l.* per cwt. for good almondy seconds, and at 7*l.* 5*s.* for fine ditto.

BERGAMOT OIL.—A primary advice dated February 5 reports a generally neglected market at almost unchanged rates. Agents in London quote up to 19*s.* per lb. c.i.f. for genuine, and the spot prices vary from 19*s.* to 19*s.* 6*d.* per lb.

BROMIDES.—The *Minneapolis*, from New York, has brought 25 barrels of potassium bromide. The official price is 1*s.* 6½*d.* per lb. for English or German.

CAMPHOR (CRUDE).—China is quoted at 170*s.* per cwt. on spot; business has been done by the monopoly in "B" quality at 135*s.* c.i.f. for March steamer shipment.

CAMPHOR (REFINED).—Business has been done in Japanese 2½ lb. slabs for July-August shipment at 1*s.* 4½*d.* per lb. c.i.f., shippers being unable to book earlier.

The exports from Japan during the eleven months ended November were as follows :

	1911	1912	1913
Kin	3,091,000	2,751,000	2,210,000
Yen	2,819,000	2,538,000	2,003,000

CASSIA OIL is steady on spot, with 80 to 85 per cent. on offering at 3*s.* 4*d.*, 75 to 80 per cent. 3*s.* 2*d.*, and 70 to 75 per cent. at 3*s.* per lb. The c.i.f. price for 80 to 85 per cent. is 3*s.*, which has been paid, market closing with buyers thereat.

CASTOR OIL.—English make of first pressing is 10*s.* per ton dearer at 26*l.* in barrels for prompt, and at 26*l.* 5*s.* for March-December delivery; pharmaceutical quality is 28*l.* 10*s.* in barrels and 31*l.* in tins, cases, delivered free on wharf London. Belgian firsts for prompt and forward delivery is quoted 25*l.* per ton f.o.b. Antwerp, prompt and forward. In Liverpool, good seconds Calcutta is quoted 4*d.* and 3 9/16*d.* for shipment.

CHAMOMILES are firmer at from 47*s.* to 50*s.* ex wharf for average seconds.

CHIRETTA.—Fifty packages have arrived from Calcutta per *City of Bristol*.

CINNAMON.—The usual quarterly auction took place last Monday, and consisted of 58 bales worked and 143 bales unworked. The worked all sold with good competition at an advance of a penny per lb. on fine firsts and seconds and at full rates for thirds and fourths. Fine firsts sold at 1*s.* 9*d.* per lb., seconds at 1*s.* 8*d.*, thirds 1*s.* 5*d.* to 1*s.* 6*d.*, and fair to good fourths at 1*s.* to 1*s.* 3*d.* There was no demand for unworked, and these were all bought in. Common chips sold at 2⅜*d.* per lb. At the spice auction six bales Ceylon sold without reserve at 1*s.* 1*d.* for fair unworked seconds.

CITRIC ACID is firmer at 1*s.* 11¼*d.*, which price, owing to spot scarcity, has been paid for prompt delivery.

CLOVES.—At auction 76 bales Zanzibar were bought in at 6¼*d.* for fair, and six cases good Penang at 1*s.* Privately Zanzibar on spot is quoted at 6*d.*, and to arrive business includes January-March at 5 15/16*d.* to 6*d.* c.i.f. closing sellers at 5 15/16*d.*; for March-May delivery sellers quote 6*d.*, and June-August 6⅛*d.*

COCOA-BUTTER.—Spot sales have been made at 1*s.* 4½*d.* per lb., being steady.

COD-LIVER OIL.—A few small sales of new oil have been made at 75*s.* c.i.f. for a good brand of Lofoten oil but as the market is regarded as a declining one at the moment, the bulk of buyers hold off. The quotations for the leading brands of new Lofoten oil range from 75*s.* to 77*s.* 6*d.* per barrel c.i.f. The fishing has

and the prospects are good, provided stormy does not prevail.

ng to cabled statistics, the catch and output of oil up to February 21, as compared with the corre- period 1913, is as follows:

	Catch of cod	Livers for raw oil (hect.)	Yield of c.l.o. (hect.)
, 1914...	1,200,000	229	1,137
1913...	670,000	180	395
ountry, 1914...	7,000 000	2,141	6,863
1913...	8,300,000	2,588	6,753

E.—The makers have reduced their price by 7*d.* quoting 175-oz. lots of the pure crystals at net cash.

SULPHATE is easier, the usual Liverpool brands at 22*l.* 7*s.* 6*d.*, and March-May at 22*l.* 10*s.*

—Business has been done in Chinese at 60*s.* per spot.

N is quoted on spot at from 25*s.* to 27*s.* per to quality.

R.—Quiet. At auction 102 cases Calicut were n, comprising good small-cut at 40*s.*, bright brown s. Of 919 bags offered 187 sold, including brown ough wormy at 20*s.*, D rough at 21*s.* to 21*s.* 6*d.*, reserve. 24 bags Japan were bought in at 25*s.*

ACACIA.—Sudan is rather firmer on spot, with fair quality half-hard sorts at 34*s.* per cwt. To ellers of new crop quote 30*s.* per cwt. c.i.f. for shipment from Khartoum. East Indian gums are ith Ghatti offering at 27*s.* 6*d.* for No. 1 and 17*s.* for No. 2 on c.i.f. terms.

UANHA.—Sales of Matto Grosso have been made 0*d.* to 7*s.* 11*d.* from first hands for fair bright lean, one broker having cleared his catalogue s. Cartagena is offered at 6*s.* 9*d.* The new 58 bales Johore has arrived, three consisting of

OIL is again dearer to arrive, but prices are r and cover a wide range, at from 9*s.* to 9*s.* 8*d.* nd mostly without engagement. Spot prices are . to 9*s.* 6*d.*

ilian advice, dated February 21, states that "the g of this week brought a further substantial advance ast quoted prices, the upward movement being quite t and as spasmodic as the decline of a few weeks llers, seeing what success they met with by keeping d letting buyers come forward for what they re- naturally tried to make the best of the situation, y as they knew that plenty of local engagements ruary delivery were still to be covered. Several of gagements are to provide for forward contracts made the season, which still leave a margin even at high values, and this may explain the readiness ich some local buyers acceded to the heavy advance. s foreign consumers are concerned, buyers have been back by this reckless see-saw movement, and, with eption of a few orders for prompt shipment, there n nothing moving during the week. This gives an n feeling to the whole situation, and, notwithstand- rapid movement which is going on here, there is a idea that it is only consumers abroad whose action the deciding factor in this year's position."

-JUICE.—Good raw West Indian is quoted at 1*s.* 5*d.* lon.

.—At auction West Indian was 1*d.* to 2*d.* per lb. 68 packages being sold, including good at 2*s.* 4*d.* *d.*, fair 2*s.* to 2*s.* 2*d.*, ordinary 1*s.* 10*d.* to 1*s.* 11*d.*, n 1*s.* 9*d*, and broken 1*s.* 5*d.* to 1*s.* 8*d.* per lb.

THOL has been very quiet, the spot value of shi being 12*s.* 4½*d.* to 12*s.* 6*d.* In combination with . 11*d.* c.i.f. is quoted for October-December ship- but no business is reported.

-SUGAR remains firm at from 58*s.* to 60*s.* per cording to quantity and make.

OIL.—Japanese is quoted on spot at from 4*s.* 8*d.* 9*d.*, and at 4*s.* 3*d.* c.i.f. for February-March ship-

MUSK is unaltered, the value of fine selected blue skin Tonquin pod pile I. being 70*s.*, good old-fashioned pile I. 60*s.*, and pile III. 40*s.* per oz.

NUTMEGS.—At auction 330 packages West Indian sold with good competition at steady rates for good and ¼*d.* lower for defective.

OILS (FIXED)—*Linseed* is 7½*d.* per cwt. dearer, closing at 24*s.* 9*d.* in pipes and 25*s.* 1½*d.* in barrels. *Cotton-seed* is unaltered at 30*s.* for crude, 30*s.* for ordinary pale refined, and 33*s.* 6*d.* to 34*s.* 6*d.* for sweet refined. *Rape* is firmer at 31*s.* 6*d.* for ordinary brown crude, and at 33*s.* 9*d.* for English refined in casks. *Coconut* is quiet at 46*s.* 6*d.* for Ceylon, and at 53*s.* for Cochin on spot. Lagos *Palm* is about 1*s.* 3*d.* dearer at 34*s.* 3*d.* to 34*s.* 6*d.* for early March delivery. Finest English *Colza* is quoted 32*s.* 3*d.* to 33*s.* 6*d.*, finest foreign ditto 34*s.* to 36*s.*; *lard* oil, 41*s.* 6*d.* to 56*s.*; *seal*, 19*l.* to 27*l.* per tun; *whale*, 19*l.* to 26*l.*; bright *sperm*, 26*l.* to 29*l.*; *cod*, 19*l.* to 24*l.*, all per tun. *Neat's-foot*, 2*s.* 6*d.* to 3*s.* 10*d.* per gal. *Ground nut*, 38*s.* 6*d.* to 47*s.* per cwt. *Soya* is firmer at 25*s.* 3*d.* per cwt. for January-February shipment. Chinese *Wood* is quoted on spot at 30*l.* 5*s.* *Petroleum* is unaltered at 8*d.* for either Russian or American, and at 9*d.* for water-white.

OPIUM.—The primary markets are unsettled owing to speculative buying, and it is difficult to get firm offers: 13*s.* 6*d.* c.i.f. is quoted from Smyrna for 11-per-cent. test, and business is being negotiated. The spot price of druggists' is from 15*s.* to 15*s.* 6*d.* As regards soft shipping descriptions, a Constantinople telegram intimates that stocks of Hadjikeny have been cleared, only a few cases of Tokats and Malatia being available. Persian remains firm at from 18*s.* to 22*s.*, with business at both and intermediate figures, including 22*s.* for 11-per-cent. test.

A Smyrna correspondent writes on February 13 that the sales this week amount to 94 cases, at from 13*s.* 8*d.* to 14*s.* 3*d.* for selected extra Karahissar druggists' qualities (11¼ per cent. to 12 per cent.), and 11*s.* to 13*s.* 3*d.* for current tale-quale, as to quality and morphine strength. The weather continues favourable in all the opium-growing districts, but, in spite of this, sellers are firmly maintaining the position, and will very likely do so as long as the winter risks last. The arrivals in Smyrna are 4,377 cases, against 2,277 at same date last year

A Constantinople correspondent writes on February 21 that the sales of the week were 49 cases druggists' at from 182 to 215 ptrs., 31 cases "softs" at from 243 to 250 ptrs., and four cases Malatias at 230 ptrs. On account of frosts in certain producing centres of the interior, pessimistic rumours have been circulated with regard to the next crop, and several speculators at Smyrna and Constantinople have advanced prices. On the other hand, the demand, especially from America, not having been missed, holders have abstained from selling, and the market has become firm to such a point that several orders have not been able to be executed. The reports which we receive personally from our correspondents in the interior, although they confirm that some damage has been done to the last sowings, describe the general situation, however, as satisfactory. The arrivals in Constantinople amount to 3,266 cases, against 2,431 cases. They consist of 1,765 druggists' (1,249); soft, 1,237 (844); Malatia, 264 (338). The present stock is 861, against 862 cases, and consists of 455 druggists' (513), 275 soft (230), and 131 Malatia (119). The figures in parentheses represent those for 1913.

ORANGE OIL.—A Sicilian report, dated February 21, reports an unchanged market, but in sympathy with lemon oil a slightly better tone prevails; for shipment 10*s.* 3*d.* to 10*s.* 9*d.* c.i.f. is quoted. We note the arrival of thirty-five cases orange oil from Jamaica. The spot prices are from 9*s.* 3*d.* to 9*s.* 6*d.* for this description.

ORANGE-PEEL.—Fair thin cut Tripoli strip is selling at 1*s.* 6*d.* per lb.

PALMAROSA OIL is a little firmer at 11*s.* for East Indian on the spot.

PEPPERMINT OIL is about 3*d.* dearer. Sales of good brands of tin oil have been made at 15*s.* 3*d.* on spot, but 15*s.* 6*d.* to 15*s.* 9*d.* now represents the values. Bottled oil is also 6*d.* to 9*d.* dearer at 18*s.* 9*d.* to 19*s.*, on the spot for H.G.H., but one holder asks 19*s.* 6*d.* Sales have been made up to 19*s.*; the advance is in sympathy with one in the U.S.A.

Quicksilver.—It was reported on Monday that the Baron had sold several thousand bottles at below the official rate of 7*l.* 10*s.*, after which he again fixed his price at this figure. Second-hands quote 7*l.* 1*s.*

Quillaia is very firm at 38*s.* ex wharf London.

Quinine.—At a meeting of the German makers it was resolved to leave prices unaltered for the present. The market is, however, firm at 1*s.* 1*d.* from first-hands and 1*s.* 0½*d.* from second-hands.

The exports of "quinine, quinine salts and combinations" from Germany during the twelve months ended December were as follows:

	1911	1912	1913
Kilos.	206,600	203,600	205,600

Rhubarb.—Small sales of bold flat Shensi with good even pinky fracture have been made at 4*s.* 3*d.* per lb.

Sarsaparilla.—Small sales of genuine grey Jamaica from second-hands have been made at 2*s.* 1*d.*, also Lima-Jamaica at 1*s.* 10*d.*; the value of Vera Cruz is 11*d.* net on spot, and to arrive the high price of 10½*d.* c.i.f. is quoted. Good red native Jamaica has been sold at 1*s.* The *Minneapolis* from New York has brought twenty-five bales of sarsaparilla.

Senega.—Business on spot has been done at 2*s.* 10¾*d.* net, and to arrive 2*s.* 10*d.* c.i.f. is quoted.

Senna.—Retail sales of good Alexandrian pods ex auction have been made at 1*s.* 6*d.* per lb.

Shellac is firmer, the usual standard TN Orange quality having advanced to 74*s.* on spot, and fair free AC Garnet is also 74*s.*; for February-March shipment TN Orange has been sold at 75*s.*, and AC Garnet at 70*s.* c.i.f. Futures are steady, the sales including March at 73*s.* to 74*s.* 6*d.* to 74*s.*, May 74*s.* 6*d.* to 76*s.*, and August 76*s.* 6*d.* to 78*s.*

Soda Nitrate.—In Liverpool prices are steady at from 10*s.* 6*d.* to 10*s.* 9*d.* per cwt. for ordinary to refined, the latter being scarce and more or less nominal. In London 10*s.* 9*d.* to 11*s.* is quoted.

Spearmint Oil remains very quiet at 16*s.* 3*d.* per lb. on spot.

Sulphur.—Refined quiet, with flowers offering at from 6*l.* 10*s.* to 6*l.* 12*s.* 6*d.* per ton, roll 6*l.* 5*s.* to 6*l.* 7*s.* 6*d.*, and recovered 6*l.* 5*s.*, all ex wharf. In Liverpool 5*l.* 15*s.* is quoted for flowers and 5*l.* 17*s.* 6*d.* for roll on c. and f. terms.

Tamarinds.—At auction 165 barrels Barbados sold without reserve at from 15*s.* to 15*s.* 6*d.* per cwt. landing weights, in bond.

Turmeric.—With the new crop arriving, the spot market for old continues easy and slow, Madras finger offering at from 13*s.* to 14*s.*, Bengal finger at from 12*s.* to 12*s.* 6*d.*, and 11*s.* 6*d.* for Cochin split bulbs.

Turpentine is about 6*d.* per cwt. cheaper, American closing to-day (4.30 p.m.) at 31*s.* 10½*d.* on spot. French is quoted 32*s.* 6*d.* to 32*s.* 9*d.*, and Russian 23*s.* 6*d.* to 26*s.* for ordinary and rectified.

Vanilla.—At auction 221 tins offered, and practically all sold, good and fine pods bringing full prices, while foxy and "off" qualities were about 6*d.* lower. The following prices were paid: Seychelles (155 tins) fair to good firsts, 7 to 8½ in., 12*s.* 6*d.* to 14*s.*; 5 to 7 in., 10*s.* to 12*s.* 6*d.*; leanish firsts, 2½ to 7½ in., 9*s.* 6*d.* to 10*s.* 6*d.*; fair seconds, 3½ to 7 in., 8*s.* 6*d.* to 9*s.* 3*d.*; slightly mouldy, 6*s.* to 7*s.*; various, 6*s.* 6*d.* to 7*s.* 9*d.*; fair to good split, 9*s.* to 9*s.* 6*d.*; common, 7*s.* 6*d.* to 8*s.*; mouldy, 3*s.* 6*d.* to 4*s.* 9*d.*; Madagascar (75 tins) good firsts, 7 to 8 in., 12*s.* 6*d.* to 14*s.*; 6 to 7 in., 11*s.* to 11*s.* 6*d.*; fair to good, 5 to 6 in., 10*s.* to 11*s.*; 3½ to 5 in., 9*s.* 9*d.* to 10*s.* 6*d.*; seconds, 5½ to 7 in., 9*s.* 6*d.*; crystallised, 4 to 7½ in., 9*s.* 6*d.* to 10*s.* 6*d.*; foxy, 3½ to 6½ in., 9*s.* 3*d.*; and splits, 9*s.* 3*d.* per lb.

Veratrine.—The makers have reduced their prices by 6*d.*, the basis price being 3*s.* 2*d.* per oz. net.

Wax, Bees'.—The Liverpool market is firm but quiet at 8*l.* 10*s.* for Gambia. The spot price of Jamaica is 9*l.*, East African 8*l.*, Gambia 8*l.* 10*s.*, and bleached Calcutta 8*l.* 10*s.* to 8*l.* 15*s.*

Wax, Carnauba.—Waxy is offered at 132*s.* 6*d.*, and chalky at from 142*s.* 6*d.* to 145*s.* on spot.

Wax, Japanese.—A small business has been done on the spot at 55*s.*, and for shipment 51*s.* c.i.f. is wanted.

Manchester Chemical Market.

February 2.

There is little new to report in the position of heavy chemicals. If anything, deliveries on contract account were somewhat smaller, owing no doubt to the increasing quietude in the Lancashire cotton-trade. There is every appearance of short time spreading, but so far as this branch is concerned there was a somewhat better feeling on the chemical side of the Exchange. There was, however, no material change to report in the price of heavy chemicals. Although raw cotton continues on the declining side, holders on spot refused concessions, and last week's prices are repeated. Glycerin quotations are firm; crude, dynamite, and commercially pure being quoted 63*l.*, 83*l.*, and 95*l.* per ton respectively. Wood-naphthas show little change. Coal-tar products attracted little attention from buyers. Pitch rules weaker in face of a prospective increase in the output, the general quotation is 39*s.* 6*d.* to 40*s.* per ton, on rails, Manchester. Benzols and creosote rule firm. Carbolic acids and naphthas dull.

Heavy Chemicals.

Business in the heavy-chemical market continues much the same as recently reported, and forward inquiry both on home and export account is rather disappointing. For prompt and early delivery the position is better, and calls against existing contracts are a very fair average.

Sulphate of Ammonia is steady, and there is a distinctly better demand for this and next month's delivery. For delivery beyond there is not much doing, and sellers would doubtless accept somewhat lower prices for such. Present nearest figures: London, 25-per-cent., 11*l.* 15*s.* to 11*l.* 17*s.* 6*d.*, usual terms; Leith, 12*l.* 15*s.*; Liverpool, 12*l.* 12*s.* 6*d.* to 12*l.* 15*s.*; Hull, 12*l.* 10*s.* to 12*l.* 12*s.* 6*d.*

Alkali-produce, generally speaking, is rather quiet as regards demand, though prices mostly keep steady. Bleaching-powder is somewhat firmer, and the range of prices is rather higher, running now from 5*l.* 2*s.* 6*d.* to 6*l.*, according to conditions. Caustic soda, home trade, 70 per cent., 9*l.* 7*s.* 6*d.* to 9*l.* 12*s.* 6*d.*; and 60 per cent., 8*l.* 7*s.* 6*d.* to 8*l.* 12*s.* 6*d.*, with former reductions on export account.

Bichromates of Potash and Soda have only been in moderate demand, and there are reports that lower prices will rule, though whether such development will take place is hard to say. Present figures are for English and Scotch deliveries: Potash, 3½*d.*, and soda, 3*d.* per lb., usual terms, and export ¼*d.* per lb. less.

Magnesium Salts are steady, without great pressure in demand. Sulphate, 67*s.* 6*d.* to 72*s.* 6*d.*; chloride, 72*s.* 6*d.* to 77*s.* 6*d.*; and carbonate, 30*s.* to 37*s.* 6*d.* per cwt.

Zinc Salts are on the quiet side. Zinc-sulphate crystals 6*l.* 15*s.* to 7*l.* 2*s.* 6*d.*; and zinc chloride, 100° Tw., 6*l.* 15*s.* to 7*l.*

Continental Drug and Chemical Markets.

Acetic Acid.—Prices, which for a long time were unchanged, have now been reduced a few marks, as the result of a new competitor, whereby the united factories have been obliged to resort to counter-measures. Present prices are low, but there is a possibility that the keen competition may result in still lower rates.

Alcohol.—As previously intimated, the Centrale has not reduced the price in accordance with the cheap raw material. It is therefore not surprising that complaints are rife among consumers at the rebate system, whereby only the larger consumers of industrial spirit are benefited, and at the most by 3 per cent. and not more than m.2 per 100 litres. In any case, the unanimous opinion is that the rebate system is unfair.

Cantharides.—In spite of the higher prices, the demand remains good, and for spot (Hamburg) m.16 per kilo. had to be paid for Russian, and business has also been done at m.15.50 to arrive.

Condurango.—Market is very dull, and offers are plentiful, but consumers hold off.

Guarana.—In spite of the high prices, the demand continues, and for spot (Hamburg) m.25 per kilo. has been paid; to arrive m.26 is quoted.

Hydrastis.—According to reports from America, only unimportant supplies are coming on the market, so that the demand can barely be satisfied. Prices have consequently advanced a little further, and spot (Hamburg) ware cannot be had under m.45 and to arrive at below m.44.75 per kilo.

Kola.—The demand remains good. Only unimportant supplies of halves have arrived lately at Hamburg, while

of quarters has been over for some time past. prices asked m.58 for halves and m.65 per 100 kilos. rs.

.—Spot (Hamburg) is becoming scarcer, and as ies are not yet available, prices are firmer. Whole diate shipment is difficult to get, but can probably at the parity of m.66 per 100 kilos. c.i.f. Cut is, red with whole, very cheap, m.72.50 to m.75 being d.

Olive-oil Crops.

Marseilles, February 21.

ve-oil crops, which in August and September pro- become very abundant, are already coming to an far as Algeria and Tunis are concerned, the cause found in the great drought and also in the sirocco ich blew during a great part of September last. rovince of Oran most of the mills are shut up, and s there will be work for another fortnight, and ling will be finished throughout Algeria. Some re now buying "extra" qualities in Algiers on of fr.146 to fr.148, delivered on quay, Marseilles, store the oil and await a favourable opportunity to profit. Fine qualities are quoted at from fr.125 to nd Lampante oils from fr.118 to fr.122, and some turers even quote fr.125, Marseilles conditions.

—At Sfax milling finished about ten days ago, ills at Sousse have work for another fortnight. re maintained at high levels as follows: Sfax, extra fr.155 to fr.163; Sfax, ordinary quality, fr.140 to Sousse, extra quality, fr.150 to fr.155; Sousse, quality, fr.140 to fr.145.

—"Extra" qualities are scarce, owing to the excep- cold weather. At Malaga, where within the memory there has never been a frost, the glass dropped to below zero. The olives having frozen, the taste of s rather dry. At Bojas, too, little "extra" quality had, and very high prices are quoted, being as Borjas, "extra" quality, fr.170 to fr.180; Aragon, " quality, fr.175 to fr.185; Andalusia, "extra" fr.150 to fr.160; Andalusia, fine quality, fr.140 to Lampante oil, fine quality, fr.115 to fr.117, cost and Marseilles.

T.—The crop is satisfactory. Mills will have suffi- do until the end of March. Some good lots are quoted fr.155 to fr.165, ex warehouse. Lampantes cost fr.118 and fr.125, according to acidity, but little is being done.

eporter adds that the Marseilles market is dull at with few transactions. Lower prices are hoped it is not probable that they will come, because stocks atively small and "extra" qualities are scarce. s the actual prices paid will cause a momentary ss in the market, but afterwards prices will of neces- vance until the approach of the new crop. Some lealers are said to have sold important quantities at prices, and are now obliged to cover. When they ne market will become very firm, the more so as their ers will not be cheap, they endeavouring to minimise ctual losses.

following report, dated February 10, is from the Consul at Naples, published in the "Board of Trade l":

stock of olive oil in Galipoli at the end of last year obably the smallest left for many years. It is com- almost entirely of better-class and table oils, with a ts of common and burning oils, and is, on the whole, atisfactory. In Puglia and Lecce the appearance of in July and August, coupled with unseasonable r, ruined what promised in the early part of the to be a very good crop. The results are therefore disappointing, and in many localities the output of is estimated at only about an eighth of a normal crop. of the fruit was bought up and resold in the Province i, the remainder going to supply the needs of Tuscany e Riviera. The outlook is slightly better as regards yrrhenian coast districts, but in this case also a con- ble proportion of fruit has been disposed of in Central orth Italy for exportation abroad.

NADA NUTMEGS AND MACE.—The exports during 1912 atest figures available) amounted in value to 36,779*l.*, mpared with 20,673*l.* in 1911; over 85 per cent. was ed to the United Kingdom in 1912.

NISH GLYCERIN.—There are fifteen factories producing rin in Spain, the most important being in Barcelona, produces about 1¾ million kilos. out of an annual production of 2½ million kilos. About half of this is consumed in Spain, the remainder being exported. ically pure glycerin is only produced in small quan- There are also small factories at Madrid, Bilbao, Sebastian, and Seville.

Correspondence

Memoranda for Correspondents.

All communications must be accompanied by the names and addresses of the writers, otherwise they cannot be dealt with.

Queries by subscribers on dispensing, legal, and miscellaneous subjects connected with the business are replied to in these columns if they are considered to be of general interest.

Correspondents are requested to write each query on a separate piece of paper. Every endeavour is made to reply to queries without delay, but insertion of the replies in "the next issue" cannot be guaranteed, nor, as a rule, can they be sent by post.

Letters submitted for publication (if suitable) should be written on one side of the paper only. Their publication in "The Chemist and Druggist" does not imply Editorial agreement with the opinions expressed.

Afterthoughts on Reorganisation.

SIR,—Mr. R. Cecil Owen is evidently a thinker and a fearless writer. It is a pleasure to read and digest the column from his pen. We as pharmacists know well that oil and water will not mix. The highly gifted and late lamented Fred Reynolds contributed a sketch entitled "The Insoluble Precipitate: Will it ever Dissolve?" He depicted the demon (company pharmacy) wriggling in a test-tube resisting the various reagents. Years have passed since then, legislation has helped us, our leaders have failed us. Thousands of pharmacists have sent their annual guineas and half-guineas to the P.S., the P.A.T.A., and the C.D.A., with an ultimate object—to facilitate the solubility of the aforesaid precipitate There is something very much in common with the ruling spirit of these above-mentioned Societies. Our Parliamentary representative now advocates adequate company representation on our Committees, or, in other words, emulsifying the precipitate, rather than filtering it out and leaving a product of professional and profitable pharmacy. So we go on. "Pay, pay, pay," is the retail pharmacist's privilege. He champions a cause which enables another to suck the orange and hand to him the rind. Why cannot we be an aggressive body when our cause is good? Could we but review our lost opportunities! Take, for instance, as recently as January 1913, the revelations before the Committee on Patent Medicines. Remarkable disclosures of companies' secret trading in venereal medicines and the like were ruthlessly unfolded. Not a word of this was heard except in the trade Press. Our Society and its Parliamentary representative in their respective spheres did little or nothing to place the stigma on the deserved head. The great London Press remained dumb. But in the case of a small qualified dealer who transgressed in the ethics of advertising to a comparatively small degree he was pilloried in almost every London and provincial newspaper *in extenso ad nauseam*. Our Society wields a sword doubly sharpened—one edge rendered keen and durable with right and might; the other jagged, serrated, and requiring frequent stroppings on the "soul" of a Boot or something similar. Yours truly,

PHARMACY FOR THE PHARMACIST. (136/45.)

SIR,—Mr. R. Cecil Owen's article on "Companies" will give little satisfaction to those of our leaders who for some time past have endeavoured to attain harmony in the body pharmaceutical, and thus present a solid, unbroken front when putting forward our claims. Moltke's motto, "March apart—strike together," was strikingly exemplified in our negotiations with the Government in 1912, and one hesitates to think what our position might have been had the medical profession been so united. Mr. Owen makes two statements—that there is to be peace between limited companies and private traders, and that limited companies are doubly represented on the Executive of the Local Associations Conference. To the former I am sure all well-wishers of pharmacy will murmur a grateful "Hear, hear," but the latter statement is distinctly misleading. If we examine the numerical strength of the craft, we find that approximately one-ninth of the total is composed of bodies corporate and private com-

panies. Therefore two members on an Executive of seventeen can hardly be described as excessive. Mr. Owen points out that companies are already represented on local bodies; true, but they are in such a hopeless minority that that fact only seems to emphasise the necessity of direct representation. Furthermore, if the Insurance Act is wounding the limited companies so dangerously, it is only part of our Anglo-Saxon character that we should give them a fair and proper hearing.

Sight is a valuable asset, but insight, or, as Collins defines it, "the power of acute observation," is infinitely better. Mr. Owen can see pharmacists chuckling in the event of the Insurance Commissioners refusing our Tariff and accepting a lower one. He can see Messrs. Blank either unable to cope with the rush or carefully avoided by the insured sick. Insight sees something different. It sees the Commissioners (compelled by Act of Parliament to provide adequate medical attention and a proper supply of drugs and appliances) calmly making arrangements with the doctors to provide all at an inclusive rate. It sees the doctors grasping the proffered two shillings with both hands, never to relinquish. But it sees even more. It sees swept away by one retrograde step pharmaceutical committees, prescription-forms and checking, rural areas, floating sixpence, and all those numerous details which trouble the Commissioners, but are our safeguards. And, what is more important than all these, it sees lost for all time that which we have only just won—official recognition as "dispensers to the nation." So I ask Mr. Owen but one question: Is it worth while to resurrect the hatchet of war when we have already decided to smoke the pipe of peace? Yours truly,

Tottenham, N. Hugo Wolff.

Perloids.

Sir,—From several facts which have recently come to our knowledge, we believe some chemists are under the impression that the word "Perloid" can be applied to any medicated disc. This is not so; the word "Perloid" denotes special products of our firm, and it is illegal to apply the word to any other product. "Perloid" is our registered trade-mark, denoting not merely a medicated disc of our manufacture, but one which contains an exact amount of tincture or a given weight of trituration. Perloids are never sent out in an unmedicated condition, so that no one can legally dispense them, except as obtained from us direct or through the wholesale houses.

We are, Sir, yours truly,

London, W. Keene & Ashwell, Ltd.

Another Year's Insurance Dispensing.

Sir,—In addition to "Kentish Chemist's" comparative figures, the following may be of interest to your readers:

Cash sales, 1912, 382*l.*; 1913, 561*l.*

Received from Insurance Committee, in addition to ordinary takings to December 31, 1913, 143*l.* 1*s.* 8*d.*

Prescriptions dispensed first year, 8,262, at a total cost of 221*l.* 19*s.*; 90 per cent. of this has now been paid—*i.e.*, 199*l.* 6*s.* 10*d.*

Drug account for 1912, 99*l.*; 1913, 152*l.*

Patents account for 1912, 106*l.*; 1913, 120*l.*

These figures are for a business not yet three years established. Yours faithfully,

February 23. Essex Chemist. (137/45.)

The Next General Election.

Sir,—In view of an early general election it is time we found funds for another Parliamentary candidate. We should not have to go far to find a suitable one, neither should it be difficult to raise the funds necessary. We have all praised Mr. Glyn-Jones for his admirable work. Let us show it in a practical manner by trying to send a colleague to help him. Our Association, at a meeting on February 25, decided to send a circular letter to every chemist in its area asking him to subscribe towards the fund, and every one at the meeting promised a guinea towards it. If every Association in the country would at once do the same the Society would have little difficulty in the matter. I trust the response to the appeal will be more generous than in 1908. Yours faithfully,

Arthur H. Ball,

Hon. Secretary Mansfield and District Association.

Problems for 1914.

Sir,—Nearly all these have been solved by the stores, and the N.H.I. Act by promoting unity among pharmacists will help to find solutions suitable to their individual requirements. Once get rid of the bogey jealousy and it is surprising how much they will be able to help each other. "Jay Mack" need have no doubts, the stores are out for Insurance dispensing, and realise the importance of national recognition and direct contact with hundreds of new clients. Granted that the pay is not ideal, still, it is better than doctors' dispensing at 5*d.* or 6*d.* per bottle—about all the dispensing 90 per cent. of pharmacists ever saw before January 1913. The future rests on united action. In solving the most important problem—lack of budding pharmacists—"Jay Mack" will be no use. He fails to recognise that the biggest curse of the trade always has been "its love of cheap labour," and this is more responsible for store and unqualified competition than all questions of examination. This week "Jay Mack" boasts his second or third year apprentices are able to get 25*s.* a week, but a few weeks ago he was crying out for dispensers at 25*s.* a week. Surely men who comply with the conditions of the Assistants to Pharmacists Bill will expect and be worth more than his raw apprentices. This Bill may prove detrimental to the interests of qualified pharmacists (not in business) unless a provision is added "that not more than two such qualified dispensers are employed in any premises open for the dispensing of prescriptions, unless the said premises are *bona fide* in charge of a qualified pharmacist, in addition to the qualified owner or manager." This proviso will give the small man all the relief he wants, and prevent the big man displacing his present qualified pharmacists by the lower and cheaper qualified dispenser. Store managers may get 70*s.* a week, but this is frequently made up of salary, bonuses, spiffs, etc.—not a very dignified method of pay for the man who cannot be done without. Looking around at the handsome stores, with their large staffs and large responsibility, one cannot but admit that these firms have signally failed to recognise what they owe to the qualified pharmacists on their staffs, who, by loyally supporting them in the past, have made success possible, and to-day have gained for them a legal recognition. These men should be given handsome salaries, assured increases and promotion, a say in the management, and better holidays.

Yours faithfully,

Forty-year Bagman. (138/31.)

[Mr. Glyn-Jones's Bill does not propose to repeal the 1908 provision to the effect that every premises where the business of a chemist is carried on must be *bona-fide* conducted by a registered chemist. A Glyn-Jones assistant will not replace a registered chemist for that purpose. Other correspondence on the above subject is in type.—Editor *C. & D.*]

Subscribers' Symposium.

For questions, answers, incidents, and interchange of opinions among "C. & D." readers.

Pepper and Tea Licences.

Mr. J. P. Byrne, Secretary of the Board of Customs and Excise, informs us in reply to the query in the *C. & D.*, February 14, p. 66, that the licences to retail tea, coffee, pepper, etc., were repealed by Section 14 of the Customs and Inland Revenue Duties Act, 1869 (32 and 33 Vic. ch. 14).

Appreciations.

"Chemists owe you another debt of gratitude for getting hold of the 'Chronicles of Pharmacy' and selling them to subscribers at such a reasonable price."—(255/20.)

"Before closing this letter, it would not be completed if I were not to express to you my admiration of the appearance, get-up, and contents of the Winter Issue. It is little short of a wonder to me how these special issues are maintained so splendidly. The advertising pages are a joy to look through, while the contents are full of delightful information and interesting reading."—*A New York Subscriber* (136/61).

French Duty on Quinine.

The President of the Syndicat Général de la Drougerie Française, writing on February 17, states that there is an

in the note regarding the alteration in duty on , to which we referred in the *C. & D.*, February 14, 38 Writes the President: "At our meeting of Novem- I informed the committee that, according to the n expressed by M. Gautier, the tablets of quinine troduced into France by the firm of Parke, Davis & London, would henceforth be taxed at the duties ed under item No. 274 for quinine salts—*i.e.*, that would pay 20f. at the general tariff and 15f. at the ium tariff—the same as the salts, instead of 5 per f the value of these products, as has hitherto been se."

Dispensing Solutions.

eference to your footnote to article on 1-2 solutions, in your issue of February 21, may I point out that = 4,812.5 grains are practically equivalent to 800 grains; and if to each pint of 1-2 solution made that way be added 25 minims of distilled water, such n will contain 1 grain in 2 minims.—*W. A. Taylor* ley Edge).

k solutions for dispensing are fully discussed in that able book for pharmacists, "The Art of Dispensing," Mr. Couch will turn to p. 56 and p. 32, he will find le series of such solutions with correct, not approxi- figures for making them. By the way, Homer nodded he wrote that footnote, since the quantities mentioned a solution not of 1 grain in 2 fluid grains, but of n in 2 minims (nearly). So long as we understand y what we mean, the phrase 1 in 2, 1 in 4, etc., is ght, but it is all wrong if we want to get a solution ning an ounce of Epsom salts and employ 2 oz. of solution for that purpose. All this is clearly explained 'The Art of Dispensing"—a book that ought to be on sk of every panel chemist.—*M.P.S.* (136/24).

Profit and Expenses.

dverting to your footnote reply to 'Malt and Oil' in issue of February 14, and your repetition of same in issue of February 21, may I say that, in common with l of your correspondents and many of my friends in ess, I cannot see it? Take, for instance, Allen & Han- byno-hypophosphites, which May, Roberts list at d. This is sold for 2*s.* 3*d.*, giving a profit of 4*d.*, which s 15 per cent. on selling price or 17½ per cent. on cost. ell one bottle per month for one year I expend 22*s.* 10*d.*, n this I realise 27*s.*, showing a profit of 4*s.* 2*d.* on the s sales, which is likewise 15 per cent. on selling price 17½ per cent. on cost. Now, if I may calculate that my ses are 20 per cent. of my turnover, selling such pro- aries is decidedly at a loss—to the extent of 5 per This must be made up by a much larger percentage her and much more profitable transactions. Such sales during the year do not, for one moment, add one y to my private income, for nobody includes the value s own particular service in estimating expenses at 20 per on the turnover. Do we pharmacists throughout the try realise that in selling such products we do not make penny income, but rather must deduct 5 per cent. on prescription or other business to be in a position to ibute other people's manufactures, and to do this we spend years in study, no small amount of money, keep pharmacies open from early morning to an unnecessary hour at night—not alone on week-days, but also for best part of Sundays—and answer unprofitable night politely and courteously! I really believe that it is time for every member of our profession to join to- er and approach jointly all manufacturers who come in this margin of profit in a friendly and courteous t, and reason with them from our point of view, not nuch to secure a lower wholesale price, but to con- our interests by making the face value at least per cent. on cost and 33⅓ per cent. on selling price. e firms are waking up to this much-needed reform y; for instance, Messrs. Piver, who have advanced the lesale cost price, as well as the minimum selling price, ive 50 per cent. on cost to the average small pharmacist, they have thereby secured the goodwill of pharmacists ughout the country. But how the manufacturers referred can imagine that we who handle their products, and are constantly asked to give our opinion upon them, continue to do so much longer, I cannot understand."—*or E. Hanna* (Dublin).

retailer buys a pound of a drug for 1*s.* 11*d.*, and sells the course of a year at 3*d.* per oz. (100 per cent.). He sells the proprietary mentioned by Mr. Hanna to the nt and in the manner stated by him. Which involves greater charge on business expenses and contributes least hem?]

Dispensing Difficulties and Notes.

Readers are advised to consult "The Art of Dispensing" in regard to difficulties of compounding. We welcome fresh problems for experiment and elucidation in this column, and invite the co-operation and correspondence of dispensers.

Calcium-iodide Mixture.

SIR,—I shall be glad to have your opinion of the following prescription as to the compatibility or otherwise:

Calcii iodidi	gr. XL.
Ferri et am. cit.	ʒij.
Oxymel. scillæ	ʒvj.
Aquam ad	℥vj.

I understand the doctor wishes his patient to get the iodide as calcium iodide, but an interaction seems to take place between the calcium iodide and ferri am. cit. Can you explain the reaction, and what is formed? RHEI. (236/1.)

[The calcium iodide does not remain as such in the mixture. The three medicaments react among themselves, the principal products of the reaction being iron iodide, calcium citrate, and iron acetate. The iodine-content of the calcium iodide is all available for action on the patient, although not in its original form. There is no incompatibility in the sense of production of inert substance, except the formation of the small quantity of insoluble calcium citrate, which is only just enough to show as an indistinct precipitate.]

Insurance Dispensing Queries.

PRICING OINTMENT.—Charge for ung. ac. salicyl. (1 per cent.) ʒiv. as follows: Ac. salicyl., ½*d.*; paraffin ointment, 4*d.*; dispensing-fee, 4*d.*; total, 8½*d.* The fact that you mixed equal parts of ung. ac. salicyl., B.P., and ung. paraff. alb. does not alter the mode of charging for ingredients, which are salicylic acid and paraffin ointment. *Re* emulsions, see *C. & D. Diary*, p. 230. An extra emulsion-fee is usually charged on lin. tereb., but not on other liniments or on malt and oil, but the last is allowed in some parts.

H. E. B. (127/41).—The new Drug Tariff, in fixing the price of both drachm and two-drachm quantities, automatically rules out the anomaly of the charge for a quantity intermediate being higher than the two-drachm rate, as in the old Tariffs. Accordingly, the charge for ʒj., ʒiss., and ʒij. of a 4*d.* tincture is 1*d.* Similarly, any quantity of acid, acetylsalicyl. (5½*d.* oz.) over 75 grains and under 151 grains is 1½*d.* In any case, the quantity you mention (112 grains) comes under the ounce rate.

Legal Queries.

The majority of difficulties in regard to trade law are anticipated by the legal information printed in "The Chemist and Druggist Diary," 1914. See especially pp. 469-499.

Dip (134/5) wants to know if he can sell a carbolic creasote liquid sheep-dip as non-poisonous, and also recommend it as a disinfectant, the seller being in most cases an unqualified person acting as a traveller, calling on farmers, etc. [Yes, in Great Britain, on the conditions specified in the carbolic-acid entry of the Poisons Schedule, Part 2, *C. & D. Diary*, p. 471.]

Curious (128/134).—Hard-hoof ointment, if for human beings, is liable to duty on account of the use of the words "hard hoof," that being interpreted by the Board of Customs and Excise to be the equivalent of a corn, which they regard as an ailment. We do not know any word to describe this affliction which will not bring the preparation within the charge of duty. Medicines for animals only are outside the charge of duty.

Rexall (137/7).—A similar query to yours in regard to a chemists' Insurance dispensing department was replied to in our issue of February 7, p. 65. In that case a chemist proposed to manage both his shop and the dispensary. If you open a dispensing department a few doors away from your shop and place in it as manager a dispenser who is not registered as a chemist, but is simply recognised by Section 15 of the National Insurance Act, 1911, as one who may dispense without qualified supervision, that circumstance does not accord with the conditions of the Poisons and Pharmacy Act, 1908, which requires that every premises where the business of a chemist and druggist is carried on must be conducted by a registered chemist and druggist, and his name and certificate have to be exhibited in the premises.

Miscellaneous Inquiries.

We do not undertake to analyse and report upon proprietary articles, and when samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for and how.

We do not as a rule repeat information which has been given in this section during the past twelve months, as it occupies space which can be more profitably utilised for other information. In such cases the numbers are mentioned, and if querists cannot refer to these they may obtain the numbers from the "C. & D." Office at the published price, usually 6d.

H. J. B. (111/60).—Cement for Non-inflammable Cinematograph-films.—Acetone or a liquid glue made with acetic acid is employed for joining films made of non-inflammable celluloid.

Foot Rot (122/2).—We understand that copper-acetate baths are now being used for Foot-rot in Sheep in preference to the copper-sulphate bath. The strength of the solution used is the same as that of the sulphate. The acetate is preferred to the sulphate in many cases because it is supposed to be less corrosive, and that is the reason chiefly why it is less inclined to cause brittleness of the hoofs. You are aware of the customary method of use—namely, to make up a sufficient quantity of the solution and drive the sheep through it, placed in a suitable wooden vessel.

M.P.S. (126/62) wants to know if any of our readers have had any experience in regard to the prescribing of areca-nut to a girl of ten who suffers from Tapeworms. Any who have had such experience will oblige by writing to us. We consider, however, that extract of male fern is far preferable to areca-nut for the treatment of tapeworms, especially for children. The girl should be dieted for two days—say, on Friday and Saturday—during which she should get no butcher's meat or fish, but farinaceous food and plenty of milk until five o'clock on Saturday evening, when her last meal of the day should be dry toast and tea. On going to bed give her an emulsion of castor oil ʒiij. and extract of male fern ♏xxv. Early on the following morning a cup of hot tea should be drunk before she rises, and no solids should be given until the bowels move. This treatment should be repeated weekly until the head of the worm comes away.

Poultry (127/45) has a customer who prepares game-cocks for fighting purposes, and he has asked what food would be best to give them for a week before the fight—that is, after he gives them a physic for reducing them. The food or foods required must contain no fattening substance. His present method is a dose of cream of tartar, then he gives a little beef-tea. The idea is to keep down the weight and add to their strength. [Our veterinary adviser's inquiries indicate that the best food in the circumstances is raw lean beef and raw eggs with bone-meal in small quantities; but we must point out that cock-fighting is illegal, and the chemist who knowingly aids in preparing birds for fighting may get himself into trouble.]

Tara (131/45).—From the description of your so-called neurasthenic case, we are rather inclined to think that a stricture of the bowel is developing. The loss of flesh and increasing constipation and weakness all point to this. The only way to settle the point, if nothing can be felt in the course of the bowel, is to give some bismuth meals and take a series of *x*-ray photographs. This would require to be done by an expert, and if your friend can afford it it is certainly worth while. A stricture may be malignant or may be caused by bands, but in either case may be curable by operation, while in the former case every day's delay increases the risk that it may have passed the removable stage. Sir Lauder Brunton's book is entitled "Disorders of the Digestion," and is published at 10*s.* 6*d.*

Seeker (117/36).—Regulation of the Teeth.—The following are the chief books on this subject: Angle's "Treatment of Malocclusion of the Teeth" (20*s.*); Colyer's "Notes on the Treatment of Irregularities in Position of the Teeth" (15*s.* 6*d.*); Guilford's "Orthodontia" (10*s.*); Jackson's "Orthodontia" (16*s.*); Jackson's "Orthodontia and Orthopædia of the Face" (20*s.*); Knapp's "Orthodontia Practically Treated" (20*s.*); Knapp's "Teeth Regulation" (1*s.*); Lischer's "Elements of Orthodontia" (5*s.*); Rose's "Dental Irregularities" (2*s.*); Talbot's "Irregularities of the Teeth and their Treatment" (20*s.*); Widdowson's "Care and Regulation of Children's Teeth" (3*s.* 6*d.*). The subject is a large one, and any small book could not go into the matter very deeply.

Flowers (134/17).—Preserving Cut Flowers.—See *C. & D.*, July 12, 1913, p. 64, and January 31, 1914, p. 154.

Strebor (124/19).—Fireproofing Theatrical Scenery.—The following method is much employed:

Sodium tungstate	1 lb.
Water	1½ pint

Dissolve in the cold, and add—

Sodium phosphate	2¼ oz.
Water	1 pint

or a sufficiency of water to make the solution of sp. gr. 1.140. The method of using is to dip the material in the solution, wring out with the hands, dry, and iron if necessary.

Simplex (124/63).—Liquid Court-plaster.—An acetone collodion such as the following is the best form of liquid skin-plaster:

Pyroxylin	ʒv.
Camphor	ʒj.
Pure acetone	℥xiiss.

Dissolve the pyroxlin, camphor, and 10 oz. of acetone in a dry bottle, then make up to 12½ oz. with acetone.

J. A. (128/42).—Furniture-gloss.—This contains, we think, too much raw linseed oil. If in place of part of the linseed oil in your formula you employ boiled linseed oil, we think the defect in the product to which you refer will be neutralised; at least, this is the direction in which your experiments should be carried on. Other siccatives are available in case boiled oil is not suitable for the purpose.

Peter Oleum (Shanghai) (127/23).—Mucilage for Envelope-flaps.—The following is a representative formula for this purpose:

Gum arabic	2 lb.
Glycerin	10 oz.
Formalin	2 dr.
Distilled water	4 pints

Dissolve the gum in the water, and strain; then add the glycerin and formalin. In moist climates the glycerin may be reduced in quantity or omitted altogether. A little soft soap is sometimes used with the glycerin.

Tartar (129/43).—Chemical Fertilisers.—We gave particulars of the various fertilisers employed in the *C. & D.* December 11, 1909, p. 916, with a table of special fertilisers. This article was afterwards published in an extended form in *The Chemist and Druggist Diary, 1911.* To these you should refer, as our space does not enable us to repeat information given recently.

Retrospect of Fifty Years Ago.

Reprinted from "The Chemist and Druggist." February 15, 1864

Medical Bill.

The following correspondence between the Medical Council and the United Society of Chemists and Druggists will show that the present uncertainty in reference to the proposed new Medical Act does not lie with the latter Society:

London, 6th February, 1864

Sir,—On the 25th August last I received your letter acknowledging the receipt of one of a previous date from the Executive Committee of this Society requesting an interview for a deputation to the General Council of Medical Education and Registration to urge upon their attention the very injurious nature of certain clauses in the proposed amended Medical Act affecting the interests of chemists and druggists.

In your reply you informed me that the Council would receive this application of the Committee when they met, but added that a considerable time would elapse before they would be again convened. Not having heard from you since, I presume the Council have not yet resumed their sittings.

In the meantime, the Executive of the United Society of Chemists and Druggists have convened public meetings to receive the wishes of the chemists and druggists throughout the kingdom. At all these meetings the objectionable clauses were strongly condemned.

At the London meeting, held at the United Society's offices in November last, certain resolutions were unanimously passed, which I have now the honour to forward through you to the General Council of Medical Education and Registration.

I am, Sir, your obedient servant,
C. F. Bott, Secretary.

Francis Hawkins, Esq., M.D., etc., etc.,
Registrar, General Council of Medical Education and Registration.

London, 8th February, 1864.

Sir,—I have had the honour to receive your letter dated the 6th inst., together with a copy of certain resolutions passed by the United Society of Chemists and Druggists.

These resolutions shall be submitted to the Branch Medical Council for England when it next meets.

I am, Sir, your obedient servant,
Francis Hawkins, Registrar.

C. F. Bott, Esq., Secretary.

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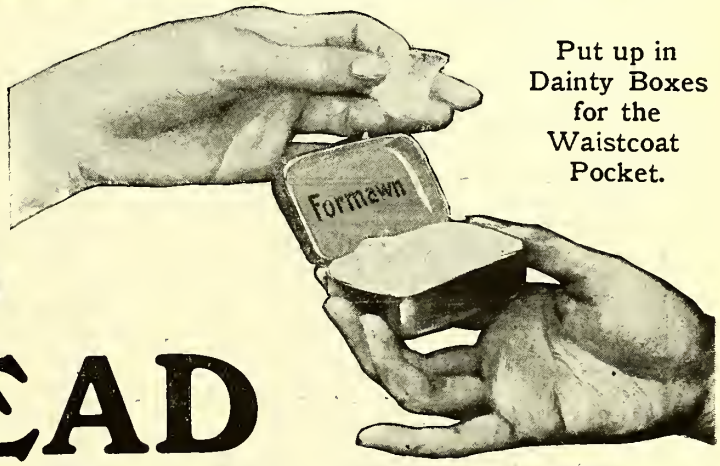

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Formaldehyde, 40%, 4 cwt. barrels @ 39/- cwt.; 132-lb. carboys @ 5½d. lb.; 7 lbs @ 7½d. lb.
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Gallæ Cærul. Pulv., 7 lbs. @ 1/- lb.
Gamboge, English Ground, 7 lbs. @ 3/6 lb.; 1 lb. @ 3/10 lb.
Ginger, English Ground, 1 cwt. @ 46/- cwt.; 7 lbs. @ 7d. lb.
Gingerine, Extra, 5 lbs. @ 11/- lb.; 1 lb. @ 11/6.
Glycerin. Opt. D.D., 1260 P.B., 1 cwt. @ 100/- cwt.; 56 lbs. @ 101/- cwt.; 12 lbs. @ 1/1 lb.
*Glycerin. Acid. Boric, P.B., 6 lbs. @ 1/5 lb.
* ,, Acid. Carbolic. P.B., 6 lbs. @ 1/5 lb.
* ,, Acid. Tannic. P.B., 6 lbs. @ 1/5 lb.
,, Belladon. B.P.C., 6 lbs. @ 2/7 lb.; 1 lb. @ 2/10 lb.
*Glycerin. Boracis, P.B., 6 lbs. @ 1/2 lb.
* ,, Pepsin. Acid, P.B., 1 lb. @ 3/1 lb.
* ,, Plumbi. Subacet. P.B., 6 lbs. @ 1/6 lb.
Gran. Parad., 1 cwt. @ 70/- cwt.; 7 lbs. @ 9d. lb.; Powder, 7 lbs. @ 1/- lb.
Guaiacol Carb., 7 lbs. @ 7/9 lb.; 1 lb. @ 8/3 lb.
Guaiacol, pure, 1 lb. @ 6/9 lb.
Gum Acaciæ, sorts, 3 cwt. @ 37/6 cwt.; 1 cwt. @ 41/6 cwt.; 7 lbs. @ 6½d. lb.; English Ground Powder, No. 1, 1 cwt. @ 95/- cwt.; 7 lbs. @ 1/1 lb.; No. 2, 1 cwt. @ 75/- cwt.; 7 lbs. @ 10d. lb.
Gum Benzoin, Sumatra, 84 lbs. @ 1/5 lb.; 7 lbs. @ 1/8 lb.
Gum Catechu Nig., English Ground, 1 cwt. @ 75/- cwt.; 14 lbs. @ 8½d. lb.
Gum Guaiaci, 1 cwt. @ 1/3 lb.; 28 lbs. @ 1/5 lb.
Gum Juniper, 14 lbs. @ 10d. lb.
Gum Thus Elect., 2½ cwt. @ 34/- cwt.; 28 lbs. @ 42/3 cwt.
Gum Tragac. Elect., English Ground, 7 lbs. @ 4/- lb.; 1 lb. @ 4/3 lb.

*Heading (Frothing Ess.), 5 lbs. @ 1/1 lb.
Heliotropine, 1 lb. @ 7/- lb.
Hellebore, White, Powder (Foreign Ground), 1 cwt. @ 29/6 cwt.
Hexamethylenetetramine, 7 lbs. @ 2/1 lb.; 1 lb. @ 2/5 lb.
Honey, Pale Set, Jamaica, 3½ cwt. @ 43/- cwt.; 28 lbs. @ 50/- cwt.; Californian, ½ cwt. @ 52/6 cwt.; 7 lbs. @ 7½d. lb.
Hydrargyrum, P.B., 75-lb. bottle @ £7/7/6; 10 lbs. @ 2/3 lb.; 1 lb. @ 2/8 lb.; Ammon., 28 lbs. @ 3/2 lb.; c. Creta, 28 lbs. @ 1/5 lb.; Iodid. Rub. 28 lbs. @ 11/3 lb.; Oxid. Rub., 28 lbs. @ 3/2 lb.; Perchlor., Lump. 28 lbs. @ 2/6 lb.; Subchlor., 28 lbs. @ 2/11 lb.; Sulph. c. Sulph., 28 lbs. @ 2/9 lb.; 7-lb. quantities 1d. lb. extra, 3-lb. quantities, 2d. lb. extra, 1-lb. quantities 3d. lb. extra.
Hydrokinone, 7 lbs. @ 2/4 lb.; 1 lb. @ 2/7 lb.

Ichtbyol Ammon., 3 lbs. @ 10/9 lb.; 1 lb. @ 11/- lb.; chemical equivalent: Ammon. Ichtbosulpbonas, B.P. Codex; 7 lbs. @ 5/- lb.; 1 lb. @ 5/6 lb.
*Inf. Aurant. Conc., 1 to 7, 6 lbs. @ 1/3 lb.
* ,, Aurant. Comp. Conc., 1 to 7, 6 lbs. @ 1/3 lb.
* ,, Buchu Conc., 1 to 7, 6 lbs. @ 2/2 lb.
* ,, Calumbæ Conc., 1 to 7, 6 lbs. @ 11d. lb.
* ,, Caryoph. Conc., 1 to 7, 6 lbs. @ 1/- lb.
* ,, Cascarilla Conc., 1 to 7, 6 lbs. @ 1/4 lb.
* ,, Cinchonæ Acid, 1 to 7, 6 lbs. @ 1/7 lb.
* ,, Gentianæ Co., 1 to 7, 6 lbs. @ 1/1 lb.
* ,, Quassiæ Conc., 1 to 7, 6 lbs. @ 9d. lb.
* ,, Rhei Conc., 1 to 7, 6 lbs. @ 1/6 lb.
* ,, Rosæ Acid. Conc., 1 to 7, 6 lbs. @ 1/8 lb.
* ,, Senegæ Conc., 1 to 7, 6 lbs. @ 2/4 lb.
* ,, Valerian Conc., 1 to 7, 6 lbs. @ 1/3 lb.

Iodoform Pulv. B.P., 7 lbs. @ 16/6 lb.; 3 lbs. @ 16/10 lb.; 1 lb. @ 17/1 lb.
Insect. Powder, Opt., English Grd., closed flowers, 28 lbs. @ 1/10 lb.; 7 lbs. @ 1/11 lb.; English Ground, ½ closed flowers, 4d. lb. less; Foreign Ground, 1 cwt. @ 80/- cwt.; 28 lbs. @ 9d. lb.
Iodum resub. B.P., 7 lbs. @ 14/4 lb.; 1 lb. @ 14/10 lb.
Isinglass, Brazil, fine cut, 7 lbs. @ 3/9 lb.; 1 lb. @ 4/- lb.; Russian finest, 7 lbs. @ 10/6 lb.; 1 lb. @ 11/- lb.; Ribbon or Sheet, 7 lbs. @ 2/9 lb.; 1 lb. @ 3/- lb.

Kamala, 7 lbs. @ 1/4 lb.; sifted, 3d. per lb. extra.

Lapis Pumicis, fine powder, 2 cwt. @ 8/- cwt.; 7 lbs. @ 1½d. lb.; lump, 2 cwt. @ 12/- cwt.; 7 lbs. @ 3d. lb.
Licorice Juice, 4 and 2-oz. Sticks, 5 cwt. @ 65/- cwt.; 1 cwt. @ 66/- cwt.; 28 lbs. @ 7½d. lb.; 7 lbs. @ 8d. lb.
*Lin. Aconiti Meth., 5 lbs. @ 1/2 lb.; 1 lb. @ 1/5 lb.
* ,, Bellad. Meth., 5 lbs. @ 1/5 lb.; 1 lb. @ 1/8 lb.
,, Camph. P.B., 40 lbs. @ 11d. lb.; 9 lbs. @ [1/- lb.
,, Sapo Meth., 9 lbs. @ 7d. lb.
,, Tereb. Acet., B.P., 5 lbs. @ 1/- lb.
Linseed c. Oil., Crushed, 3 cwt. @ 17/6 cwt.; 1 cwt. @ 18/6 cwt.
*Liq. Ammonii Acetatis Conc. 1–7, 6 lbs. @ 8d. lb.; 1 lb. @ 1/- lb.
* ,, Ammon. Aromat., 6 lbs. @ 9d. lb.
* ,, Antim. Chlor. Pure, 8 lbs. @ 6½d. lb.
* ,, Arsenicalis, B.P., 7 lbs. @ 4d. lb.; 1 lb. @ 7d. lb.
* ,, Arsenii Hydrochlor., P.B., 7 lbs. @ 4d. lb.; 1 lb. @ 7d. lb.
* ,, Bismuth, P.B., 6 lbs. @ 1/1 lb.
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* ,, Hypophosph. Co. p.s., B.P.C., 1 lb. @ 3/4 lb.
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* ,, Pruni Virg. p.s. 1–7, 5 lbs. @ 2/2 lb.
* ,, Rhœados pro Syr., 1 to 7, 5 lbs. @ 1/11 lb.
* ,, Rhei, p.s., 1–7, 6 lbs. @ 2/2 lb.
* ,, Santali Co., 1 lb. @ 3/9 lb.
* ,, Sennæ Dulc. 6 lbs. @ 1/4 lb.
* ,, Sennæ pro Syr. 1–7, 6 lbs. @ 2/- lb.
* ,, Strychninæ, Hyd. P.B., 6 lbs. @ 1/6 lb.
* ,, Tolut. pro Syr. 1–7, 6 lbs. @ 1/8 lb.
* ,, Trinitrini, B.P., 1 lb. @ 6/1 lb.
Lithia Carb. P.B., 28 lbs. @ 2/8 lb.; 7 lbs. @ 2/10 lb.; 1 lb. @ 3/- lb.
,, Citras, B.P., 28 lbs. @ 3/1 lb.; 7 lbs. @ 3/4 lb.; pulv., 3d. lb. extra.
Lycopodium, 22 lbs. @ 2/1½ lb.; 7 lbs. @ 2/3 lb.

Mag. Calc. Levis, 56 lbs. @ 8d. lb.; 5 lbs. @ 10d. lb.; 1 lb. @ 1/- lb.
Mag. Calc. Pond., 7 lbs. @ 1/10 lb.; 1 lb @ 2/- lb.
Mag. Carb. Pond., 56 lbs. @ 6½d. lb.; 7 lbs. @ 7½d. lb.
Mag. Carb. Levis., 1 cwt. @ 25/-; 7 lbs. @ 4d. lb.
Mag. Cit. Gran., 28 lbs. @ 8d. lb.; 6 lbs. @ 9½d.
Mag. Sulph., fine druggists', B.P., 1 cwt. @ 7/3 cwt.
Manna, Fine New Flake, 14 lbs. @ 5/3 lb.; 7 lbs. @ 5/6 lb.; 1 lb. @ 5/9 lb.
Menthol, dry white cryst., 60 lbs. @ 12/9 lb.; 5 lbs. @ 13/3 lb.
*Mist. Sennæ Comp. B.P., 20 lbs. @ 6½d. lb.; 6 lbs. @ 7½d. lb.
Morphinæ Acet. Hydrochlor. or Sulph., Pulv. B.P., 25 oz. @ 7/6 oz.; 16 oz. @ 7/9 oz., 8 oz. @ 8/- oz.; 1 oz. @ 9/- oz.; Pur. Præcip. Bimeconate or Tart. 1 oz. @ 11/- oz.
Morphinæ Diacetyl., 4 oz. @ 11/8 oz.; 1 oz. @ 12/2 oz.; Hydrochlor., 6d. per oz. less.
Myrrh, Gum, English Ground, 28 lbs. @ 11d. lb.; 7 lbs. @ 1/1 lb.

Naphthalene, Candles or Balls, 1 cwt. @ 13/6 cwt.; 56 lbs. @ 16/- cwt.; 28 lbs. @ 18/- cwt.
Nux Areca, 1 cwt. @ 30/0 cwt.; 7 lbs. @ 4d. lb.; powder, English ground, @ 59/- cwt.; 7 lbs. @ 7½d. lb.

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Ol. Anisi, E.I., 66 lbs. @ 6/6 lb.; 16⅝ lbs. @ 6/10 lb.; 4½ lbs. @ 7/2 lb.; 1 lb. @ 8/- lb.
Ol. Aurant., 12 lbs. @ 15/- lb.; 1 lb. @ 15/6 lb.; not guaranteed absolutely pure.
Oil of Bays, genuine W.I., 9 lbs. @ 15/- lb.
Ol. Cajuput., B.P., 21½ oz. bots. @ 3/- lb.
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Ol. Caryopb. Ang., B.P., 9 lbs. @ 4/3 lb.; 4½ lbs. @ 4/5 lb.
Ol. Cassiæ, 16 lbs. @ 4/- lb.; 6 lbs. @ 4/5 lb.
Ol. Cinnam. B.P., 1 lb. @ 28/- lb.; 1 oz. @ 2/2 oz.
Ol. Citronellæ, 9 lbs. @ 2/3 lb.
Ol. Coco. Nucis, finest White, 80 lbs. @ 61/- cwt.; 40 lbs. @ 63/6 cwt.
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Ol. Geranii Gall. Opt., 1 lb. @ 28/- lb.; 8 1-oz. bots. @ 2/3 oz.; 1 oz. @ 2/6 oz.; Turc., 1 lb. @ 12/6 lb.; 4 ozs. @ 15/- lb.
Ol. Gynocardiæ, 5 lbs. @ 4/- lb.; 1 lb. @ 4/3 lb.
Ol. Juniperi Bacc., B.P., 4½ lbs. @ 3/8 lb.; 1 lb. @ 4/1 lb.; Ligne Exot., 1 cwt. @ 1/2 lb.; 28 lbs. @ 1/4 lb.; 9 lbs. @ 1/5 lb.
Ol. Lavand. ab Flor., 5 lbs. @ 13/- lb.; 1 lb. @ 13/6 lb.
Ol. Menth. Pip. English, 5 lbs. @ 32/- lb.; 1 lb. @ 33/6 lb.; Hotchkiss original bots., 21 oz. each @ 19/9 lb.; 6 bots. @ 19/3 lb.; 18 bots. @ 18/6 lb.; American, 20 lbs. @ 16/- lb.; 4½ lbs. @ 16/9 lb.; 1 lb. @ 17/3 lb.; Japanese, 60 lbs. @ 5/6 lb.; 5 lbs. @ 6/- lb.
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Ol. Nucis Pallid., 45 galls. @ 3/8 gall.; 2 gall. tins @ 9/- each.
Ol. Olivæ, P.B., good yellow, guaranteed pure, 45 gall. Barrels @ 5/- gall.; 2-gall. tins @ 5/9 gall.; fine cream, 9 lb. tins @ 7/2 each.
Ol. Origani Rub., Coml., 28 lbs. @ 1/10 lb.; 9 lbs. @ 2/- lb.
Ol. Peach Kernel (so-called), 1 cwt. @ 10d. lb.; 56 lbs. @ 10½d. lb.; 9 lbs. @ 1/- lb.
Ol. Pulegii, B.P., 5 lbs. @ 5/- lb.; 1 lb. @ 5/6 lb.
Ol. Ricini Alb. Opt. Medicinal, 176 lbs. @ 40/6 cwt.; 88 lbs. @ 42/- cwt.; 44 lbs. @ 44/- cwt.; 9 lbs. @ 6d. lb.; for export, 1 cwt. drums recommended, 9/6 each extra, or 3½ cwt. barrels @ 38/- cwt.
Ol. Rosmarini, Coml., 28 lbs. @ 1/6 lb.; 9 lbs. @ 1/7 lb.; B.P., 9 lbs. @ 2/5 lb.; 1 lb. @ 2/9 lb.
Ol. Santal. Flav. Ang. B.P., 5 lbs. @ 22/6; 1 lb. @ 23/- lb.
Ol. Sassafras, genuine, 28 lbs. @ 3/3 lb.; 1 lb. @ 3/8 lb.
Ol. Wintergreen, Artificial, 56 lbs. @ 1/2 lb.; 5 lbs. @ 1/8 lb.; 1 lb. @ 1/10 lb.
Opium Turc. B.P., 14 lbs. @ 15/6 lb.; 3 lbs. @ 16/6 lb.; 1 lb. @ 17/2 lb.; powder, 6d. lb. extra.

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Prepared from the Special Formulæ of the late LORD LISTER.

The Quick-Selling Cough Remedy

Pinex

Unsold Bottles are returnable at any time.

TERMS:—Advertised Price 2/9 per bottle. Minimum P.A.T.A. Retail Price, 2/6 per bottle. Price to you, 24/- per doz.

THE PINEX CO., LTD.,
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Telegrams: "Pinexine, Cent, London." Telephone: 2208 City.

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Sterling Brand
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Acids, Hydrochloric, Nitric, Phosphoric, Sulphuric,
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CHEMICALS FOR HORTICULTURAL AND AGRICULTURAL PURPOSES, &c.

Bismuths, Mercurials, Hypophosphites, Ethers
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OUR SOL. 'MAGNESIA BICARB.' CONTAINS NO ARSENIC.

OUR REPUTATION YOUR GUARANTEE

NOTICE
TO
CHEMISTS AND DRUGGISTS

We are doing our part of the contract and we want you to do **yours.** We are advertising extensively the celebrated French Rheumatism Cure

EAUZATE

And we want **you** to stock it, so that when the public ask for the same, you will not reply, using the old stock phrase, "We can get it for you," thus running a risk of losing a sale for **you** and a sale for **us,** but produce **Eauzate** from your shelf immediately.

2/9 P.A.T.A.

All wholesalers stocked. Write us if unable to obtain.

COMPAGNIE JUVENILEAU,
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SAL HEPATICA
PUT UP FOR EXPORT.

Small size, 3 oz. bottle, in case.
Medium „ 7 „ „ „
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Supplies of the above can always be obtained from the principal wholesale houses, sizes and prices as follows:

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2 oz.	3/6	4/6
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Chemists are only supplied on the distinct understanding that STEVENS' CONSUMPTION CURE will not be sold for less than the advertised prices.

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For GREEN EXTRACTS and DRIED HERBS of BELLADONNA, HENBANE, &c.

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Brilliant in Colour. Perfect Condition.
Enquiries Solicited for Wholesale Quantities.

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EXTRACT OF MALT

PLAIN, OR WITH COD LIVER OIL

IN ALL KINDS OF PACKAGES

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GUARANTEED ABSOLUTELY PURE

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GUARANTEED GENUINE.

Manufacturers:

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CROLAS OIL (Tasteless Castor Oil).
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HIPPOSARCINE ROY (Extract of Meat).
LACTEOL du Dr. BOUCARD (Lactic Ferment).
IODEOL-Electro Colloidal Iodine-**IODARGOL.**
FUMIGATOR GONIN.

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PARIS EXHIBITION, 1889
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Jervell's Cod Liver Oil

(NEW SEASON'S)

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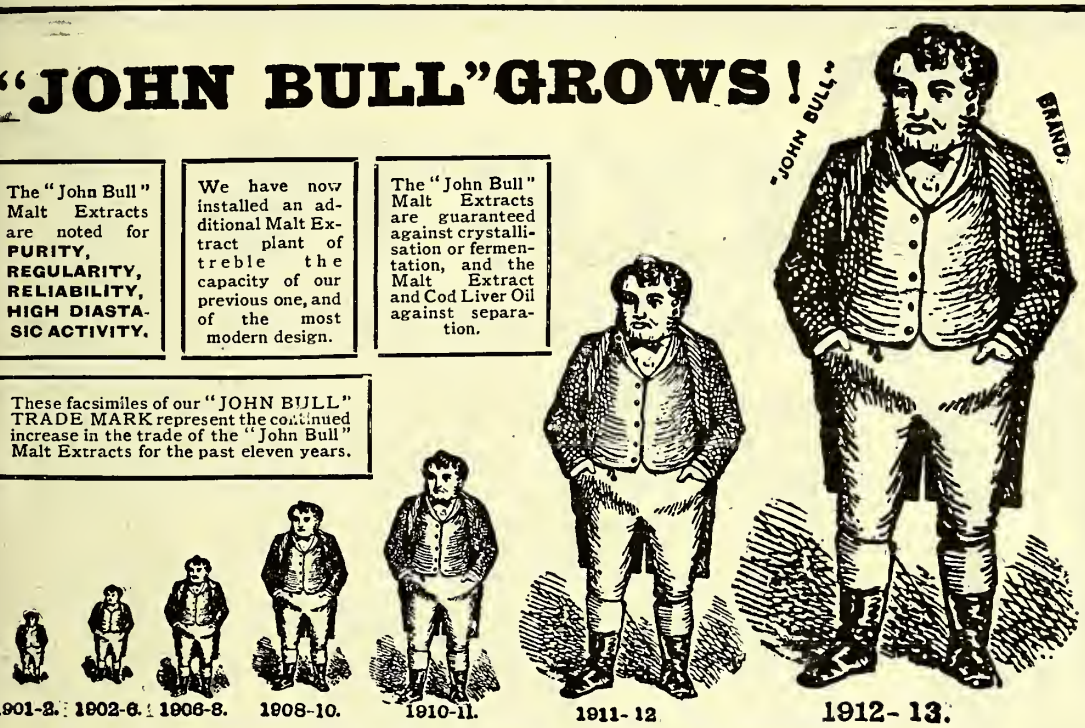
The "John Bull" Malt Extracts are guaranteed against crystallisation or fermentation, and the Malt Extract and Cod Liver Oil against separation.

These facsimiles of our "JOHN BULL" TRADE MARK represent the continued increase in the trade of the "John Bull" Malt Extracts for the past eleven years.



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Spun Ointments are the production of Shen Works only. All B.P. Ointments are now spun.

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IN FOUR SIZES. Discount for large quantity.

Bijou - 18/- per gross. Large - 48/- per gross.
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IN ALL SHADES.

THE BILTON ... ... 3/6 & 6/- doz.
THE CARTOL ... ... 6/- „
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LIME CREAMS.

IN ALL SIZES.

With various labels and varied finish. A homogeneous Pure White Cream, which keeps indefinitely and will not go thick or separate. **White French Limes.**

PRICES (per gross): 3 oz. 21/- to 24/-, 4 oz. 24/- to 30/-, 6 oz. 30/- to 36/-, 8 oz. 40/- to 48/-.

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PROTECTED PROFIT. QUICK SALES—NO BAD STOCK. REPEAT ORDERS AND SATISFIED CUSTOMERS

Never was SCOTT'S Emulsion more widely advertised than at the present moment. The opportunity, to secure a fair share of the season's demand for this preparation, is one that few enterprising pharmacists can afford to neglect.

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SCOTT'S Emulsion reflects credit on the seller and gives satisfaction to the buyer.

It bears a good protected profit, yet is advertised all over the United Kingdom.

It is the only emulsion with a 37 years' reputation for value and quality.

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Accurate in dosage, perfect in appearance.
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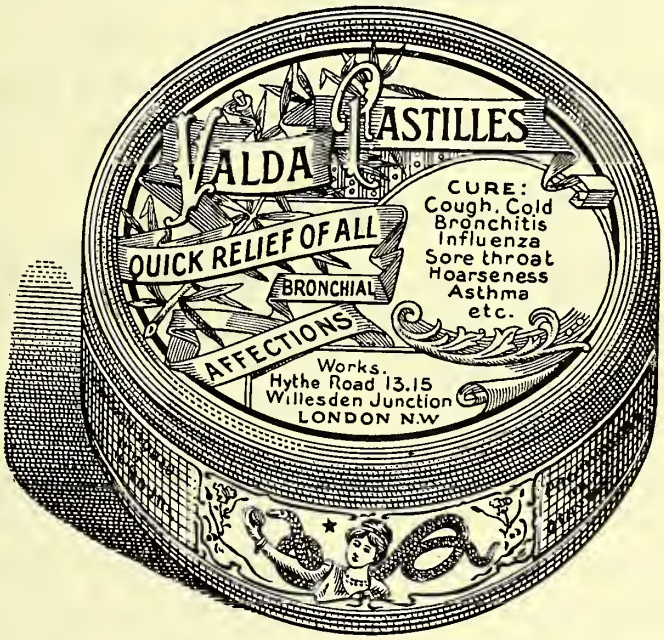
CONSTANTLY ADVERTISED EVERYWHERE.



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The message from all quarters - - **Your VALDA DEVICE IS DRAWING LARGE CROWDS**

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"All Straightforward Pharmacy"

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¶ "It is now nearly 11 years since the movement which resulted in the formation of the P.A.T.A. was inaugurated. Amongst the first of the fighters for protected profits was Mr. Davenport, the proprietor of **COLLIS BROWNE'S CHLORODYNE.** At a time when the Association had a few supporters and looked rather like being crushed by the opposition which it encountered, Mr. Davenport's assistance came very opportunely, and dealers in Chlorodyne might well bear this fact in mind when selecting a brand to sell to their customers. We think that those who helped to lay the foundation of the P.A.T.A. are entitled to special consideration at the hands of those whom the Association has so much benefited. It should always be remembered that the pioneers ran much heavier risks than those who have come in on the flood-tide after the success of the movement was assured, although of course we are in no sense despising or underrating the importance of more recent converts to the Association, and do not for a moment suggest that they should not be supported. All those proprietors who have stood by the P.A.T.A. through thick and thin ought to be put in an exceptional position in comparison with those who have never done a thing for the trade. If chemists *must* substitute (and it really seems as if some of them can hardly restrain their propensities), surely they might confine their operations to the goods of those makers whose motto is 'Self, and self alone.' We think no fair-minded retailer will, after full reflection seriously blame the P.A.T.A. Council for insisting that substitution must cease when the proprietor loyally does his part."

Purchasers must NOT be asked to sign a Poison Book.

Dr. J. Collis Browne's Chlorodyne

The ORIGINAL and ONLY GENUINE.

"The original Chlorodyne as manufactured from the recipe of Dr. J. Collis Browne is perhaps in greater demand now than it has ever been before. It has been on the P.A.T.A. List since 1897, as readers are no doubt aware. J. T. DAVENPORT, Ltd., 117 Union Street, S.E., have been the sole manufacturers of this article for upwards of forty years."

Pharmaceutical Journal, October 22, 1904.

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Size	1/1½	2/9	4/6	11/-
Minimum Retail Price	1/-	2/6	4/-	10/-
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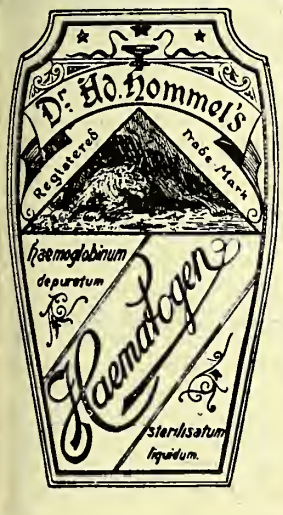
Dr. HOMMEL'S Haematogen.



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Being Members of the P.A.T.A., the wholesale, retail and selling price of the GENUINE & ORIGINAL

DR. HOMMEL'S HÆMATOGEN

are fixed by the Association **and cannot be departed from, and neither price nor packing have been altered in any way,** which please note.

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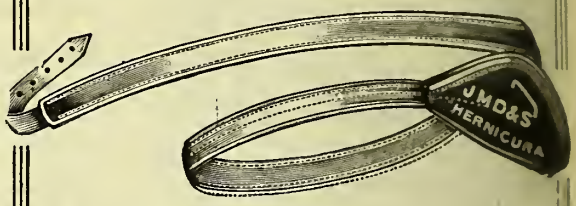
(REG. NO. 251807).



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60 seconds, plain	,,	10	0
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THE "DUO IN UNO" PATENT
(QUICK SHAKE DOWN).

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Hospital pattern	per doz.	12	0
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Certificate of accuracy verified by Kew Observatory for any of above Thermometers ,, 15 0

ach Thermometer is in a metal case, and packed in a specially designed card box with descriptive label on lid. Customers' mes engraved on the Thermometers free of charge. We accept all risk of breakage in transit if advised by return of post.

A glass-topped Showcase given FREE with orders for three dozen Thermometers.
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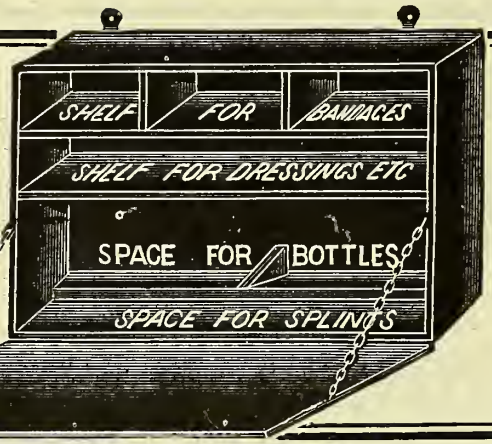
91 & 92 GREAT SAFFRON HILL, LONDON, E.C.

No. 180
17½ × 16½ × 7½"



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Many patterns made.

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DR. BOW'S
LINIMENT.
PREPARED BY HIS GRANDSON.

Minimum Retail Price:
2/6 & 1/1½

The Gothic window (shown above) and also the name "Dr. BOW'S LINIMENT" are registered Trade Marks and appear on every bottle, and anyone using the name or any similar name or any liniment or similar preparation not prepared by the Company is liable to be proceeded against.

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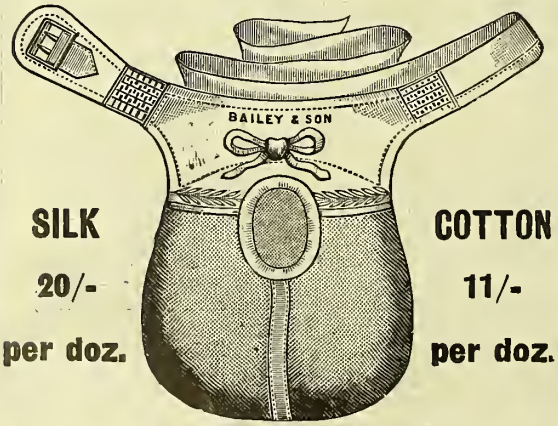

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COTTON 11/- per doz.

Assorted—A, small; B, medium; C, large bags.

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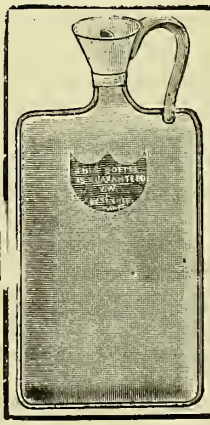

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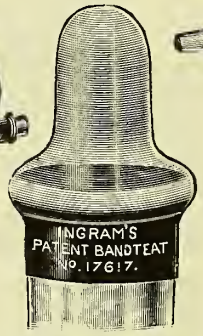

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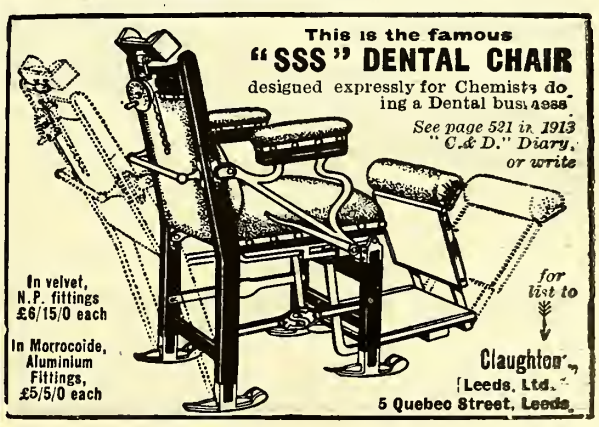

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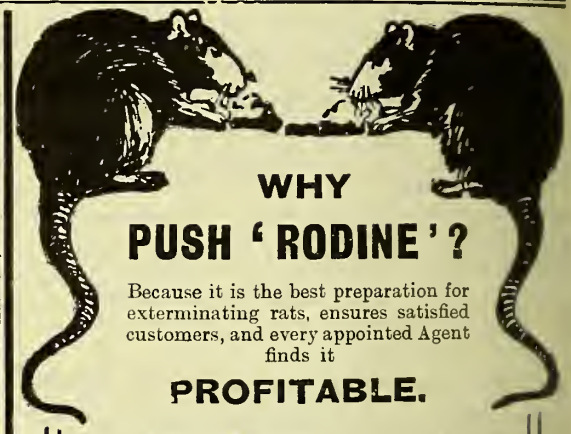

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6.—LONDON (South).—Good-class Retail and Dispensing in first-class residential suburb; returns £2,400, increasing; books properly kept; valuation terms arranged.

7.—LONDON, S.E. (Good Residential Suburb).—Light Family Retail and Dispensing; no near opposition; returns nearly £1,000; net profit £361; fine corner shop, well stocked; excellent house; price £900, or offer.

8.—YORKS (SEAPORT TOWN).—Very profitable Light Ready-money Retail; main-road position; returns last year £1,100, net profit £470 clear; books properly kept; low rent; large shop, heavily stocked; owner retiring; price £800.

9.—NORTH MIDLANDS.—Sound Mixed Country Retail in small market town; easy hours; returns about £1,000; net profit £[illegible]; large house, garden, etc.; price £400; recommended.

10.—WEST OF ENGLAND (Coast).—Good-class Dispensing and Retail, in fine position; returns about £1,200; net profit £3[illegible] after paying Assistant, etc.; good house; handsome shop, heavily stocked; price £1,050; strongly recommended.

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DRUG Stores, with S.P.O. attached; town or country; other sidelines not objected to. Write, in strict confidence, "Surrey" (259/20), Office of this Paper.

MEDIUM-CLASS Retail and Dispensing Business wanted, showing net profit of £200 (about); Coast town, but not essential; would accept Managership with succession. 260/8, Office of this Paper.

DENTISTRY.—Wanted, Rooms over shop and living accommodation; must be good position; or private house near station or 'bus route considered; London; £1 bonus if position satisfactory; up-to-date man; or would buy neglected Practice. "S.," 194 High Road, Balham, S.W.

WESTCLIFF-ON-SEA.—Assistant, 22-30, qualified Junior or thoroughly reliable unqualified, for Dispensing and Light Retail; must possess good all-round experience; very comfortable indoor accommodation; half-day weekly and whole day off monthly; personal interview invited. State full particulars and salary required first letter, enclosing photo, Body, "Westwood," Britannia Road, Westcliff-on-Sea.

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A WELL-KNOWN firm of Store Chemists in the Midlands require the services of several qualified men, who will receive good remuneration (salary and commission) in return for such; easy hours and no Sunday or Bank Holiday duty. Apply, stating age, whether married, experience, references, salary required, etc. (photo if convenient), 259/27, Office of this Paper.

ASSISTANT (outdoors) required in about a month's time; not under 25, thoroughly reliable and trustworthy, unqualified, with good all-round experience, for good-class business in S.E. London suburb; personal interview will be required; hours 8.30 to 9 p.m., Saturdays 10.30; alternate Sundays three hours. Full particulars and salary required to "X. Y. Z." (260/24), Office of this Paper.

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ASSISTANT to live over the shop; easy hours. Send photo, references, etc., Walwin, **Photographic Chemist**, Southgate Street, Gloucester.

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COMPETENT Assistant with Dispensing experience; (Junior kept); hours of business 8.30 to 10; usual half-day off weekly; alternate Sunday duty 6 to 10 (evening only); state experience, names of references, when disengaged, and salary required (indoors). Apply, letter only, Barnard & Son, 309 Hackney Road, London, N.E.

DISPENSER and Secretary wanted by Medical Man on [illegible] could live at Surgery preferred. Apply, by letter [illegible] salary required, age (a part-time man might suit), "Surg[illegible] 183 Lancaster Road, London, W.

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GOOD salary and commission for qualified Manager, op[illegible] given of acquiring interest in sound business. G[illegible] particulars and when disengaged to C. A. Stokes, M.P.S., [illegible] Bristol.

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JUNIOR Assistant required, age about 24, for good-class [illegible] and Dispensing business; outdoors; good references [illegible] personal application if possible preferred. Apply, James L[illegible] M.P.S., 125 St. John's Hill, Clapham Junction, S.W.

JUNIOR Assistant wanted (indoor) for good-class Dispe[illegible] and Light Retail, near London; easy hours. Apply, [illegible] usual particulars, salary, etc., to W. Wade, 55 High Street [illegible] Kent.

JUNIOR Assistant, unqualified, wanted; outdoors. State [illegible] reference, and salary required, Phillips & Son, Cash Chem[illegible] Newport, Mon.

JUNIOR Assistant; **indoors or outdoors.** State salary [illegible] and full particulars, D. E. Davies, Chemist, Treor[illegible] Glamorganshire.

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ry expected, and references, to Cuthford, Chemist,
hester.

tant (Junior); knowledge of Dispensing and Photo-
outdoors; good-class business. Full particulars
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Dispensing and General business; age from 30-40
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s up-to-date quick business; little Sunday duty.
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Junior), accustomed to a Chemist's business. Apply,
ull particulars, to "A. J. B. C.," Cooper, Son &
Gloucester Road, South Kensington, London, S.W.

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rate Dispenser, N.I.; good Counterman and Stock-
getic, all-round man; good working-class; 9 to 9;
liday; Saturday 10.30; alternate Sunday 7 to 9;
and good prospects to right man. Salary and full
hoto, 257/32, Office of this Paper.

D Assistant, of good Counter experience, in high-
tail, Agricultural, and Photography; state salary,
oto; permanency, progressive salary; no night or
end of March. G. Morrey, Pharmaceutical Chemist,
ton.

D or unqualified Assistant, age 25-30 (indoors pre-
but not to live with a family), in good University
nd Photographic business. Apply, with usual par-
. Beall & Son, Chemists, Cambridge.

D Assistant or Manager for General Retail, Dispens-
to age, experience, references, and salary required.
y, Upper Brook Street, Manchester.

D Assistant for branch; another assistant kept.
with full particulars as to age, experience, salary
l references, to 261/19, Office of this Paper.

D Manager, married, wanted for Insurance Dispens-
rmacy; salary £156 offered and free house; vacancy
ee weeks; will applicants kindly state full particulars
experience when applying? Apply, 262/32, Office of

D Lady Assistant for good-class business; must have
nowledge of Retail. Apply, with usual particulars,
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TIAL Assistant wanted; a really capable married
reside in furnished rooms; with a thorough know-
st-class Pharmacy and Dispensing; easy hours, light
permanency. Applications, with photograph, to
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alified Dispenser required for West End. Apply,
Office of this Paper.

RY Assistant required at once; qualified. Apply, by
nly, to J. Robert Walker, 36 New Cavendish Street,

FIED Assistant; with some experience in Extracting
or Sight-testing, but not essential. State age, when
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asingstoke.

IFIED Assistant as First Counterman; high-class
hours 8.30 to 7, Saturdays 1 o'clock. Address,
o J. W. Vickers & Co., Ltd., 5 Nicholas Lane, E.C.

IFIED Assistant, for the North, under 30, required
; easy hours; good Counterman preferred; must be
te full particulars, salary required, references, and
rty; enclose photos. Apply to "Derwent," c/o Messrs.
Lescher & Webb, Ltd., 56 Hanover Street, Liverpool.

WANTED at once for a City business, a qualified Assistant; accustomed to Dispensing; short hours; close at 1 o'clock on Saturdays; salary to commence 50s. per week; age not to exceed 45 years. Apply, by letter, with usual particulars, to "Cito," c/o Street's, 30 Cornhill, E.C.

WANTED by March 16 for quick Cash business and Dispensing, chiefly N.H.I., Assistant (outdoors), qualified or unqualified; smart Counterman and quick worker essential; age 23-25; one accustomed to modern methods; abstainer preferred but not essential; good progressive salary to suitable smart man seeking permanency; hours 8.45 to 8.15, Saturday 10.30; occasional Sunday evening 7.30 to 8; every third Thursday evening 6 to 7.30. Full particulars, age, height, experience, salary to commence, references from last situations, enclose photo (returnable) in first letter, Nash, Pharmacist, Barnsley.

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WHOLESALE.

LIVERPOOL.—Energetic young man for Manufacturing Department; must be intelligent; good opportunity for keen worker. State salary and full particulars, 137/49, Office of this Paper.

LONDON.—A Manufacturing firm has a vacancy in its Pill Department for a smart and reliable worker with good all-round experience. State age, experience, and wages required to 263/18, Office of this Paper.

CHEMIST required, with practical knowledge of Soluble and Culinary Essence manufacture; capable of taking charge of department. State age, experience, and salary required to 262/34, Office of this Paper.

COUNTER hands for Wet and Dry Floors wanted; must have had good experience. Apply, stating full particulars of previous employment, wages expected, and if disengaged, to 259/25, Office of this Paper.

DRUG-MAN, with experience of Wet and Dry Counters, required for Wholesale warehouse in provinces. Give full particulars, previous situations, etc., "C. S." (260/38), Office of this Paper.

PACKED Goods.—Smart woman to take charge of large department of above in Wholesale house; previous experience necessary. Full particulars, salary required to 135/12, Office of this Paper.

PHARMACIST (25-30) wanted for high-class Manufacturing firm (Fine Chemicals and Synthetic Drugs) to call on Doctors and Chemists. Apply, with full particulars, including references and salary required, to 127/69, Office of this Paper.

PRINTER'S Traveller wanted to call upon Chemists and Drug Stores. Apply, 135/60, Office of this Paper.

QUALIFIED Chemist to take sole charge of Laboratory; must be a capable worker and good organiser; previous experience absolutely necessary. Please give full particulars as to salary, etc.; in first letter to Oldfield, Pattinson & Co., New Bridge Street, Manchester.

QUALIFIED Chemist wanted, to take charge of the Manufacture of a Proprietary article which is capable of immense developments; to a man who has organising abilities and can handle agents a good position is offered; first-class references required; an opportunity would be given to the successful candidate to take a small interest in the Company, but this would be optional. Write, stating qualifications, age, and salary required, to 259/32, Office of this Paper.

REPRESENTATIVE, on commission, to introduce into England the Chemical and Pharmaceutical products of a German firm; man holding other agencies preferred. Write or call on S. Brasch & Co., 59 Oxford Street, London, W.

TRAVELLER required to call upon West-End Physicians; must be a first-class man and experienced in this special work. Apply, "A. Z." (138/49), Office of this Paper.

TRAVELLER wanted for Lancashire and North Wales and part of Midlands, calling on Chemists for special lines in Toilet Rolls, on commission; samples to be carried do not exceed ½ lb. State ground covered, Tennyson & Co., Ltd., Leeds.

TRAVELLERS wanted in England, Scotland, Ireland, and Wales, calling on Chemists, to sell as side-line "Pylitua" Hæmorrhoid or Pile Powders (new and genuine remedy); good commission. Apply, G. S. Mumford & Sons, Farringdon Road, London, E.C.

WANTED by Provincial Drug house, Assistant for Dry Room; must have had previous experience in this department. Apply, 256/25, Office of this Paper.

WANTED, by firm of well-known Soap Makers, Travellers with other commissions at present calling on best-class Chemists and Wholesale Druggists, to sell high-class Toilet Soaps; must have good connection; state age, commission, district, and references. Apply, 139/12, Office of this Paper.

WANTED immediately, first-class Packer, accustomed to Packing Drugs; must have good references. Apply, "M. C.," 50 Southwark Street, S.E.

WHOLESALE.—Wet and Dry Assistant required for South Africa; unmarried; not over 35 years of age; passage paid out; three years' agreement. Apply, by letter only, to "L.," 14 Lafone Street, London, S.E.

WHOLESALE Drug and Surgical Instrument Limited Company requires a gentleman (at once) to assist the Management; must be capable of organising and able to introduce new schemes and up-to-date ideas; suit qualified man seeking a permanent remunerative appointment; hours 9 to 6, 1 o'clock Saturdays; remuneration £200 per annum and commission; must invest £150 in shares; prospective seat on Board of Directors to the right man. Write, 262/36, Office of this Paper.

YOUNG MAN, about 24, experienced in Wet and Dry Counters, required immediately for Wholesale Drug department; must be quick, accurate, and reliable worker, having good references. Apply personally or by letter to Hospitals and General Contracts Co., Ltd., 25-35 Mortimer Street, W.

SITUATIONS OPEN.

(Colonial, Indian and Foreign.)

3s. 6d. for 50 words or less; 6d. for every 10 words or less beyond, prepaid. The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 6d.

ALEXANDRIA.—Qualified Manager wanted, age 25-30; two years' agreement; passage paid out and home; salary first year £15 per month, second year £16 per month; a little French or Italian an advantage. Apply, "Alex.," c/o Evans Sons Lescher & Webb, Ltd., 60 Bartholomew Close, E.C.

CANADA.—An Assistant Lady Dispenser wanted; one who has recently passed the Apothecaries' Hall examination preferred; commencing salary $35.00 per month, with room, board, and washing provided. Apply, The Chemist, General Hospital, Montreal, Canada.

CEYLON.—Qualified Assistant, age about 23 to 25, single, good Salesman, for large Pharmacy in Colombo; four years' agreement; salary Rs. 225, 250, 275, and 300 per month; commission on night and Sunday duty; free quarters; passage paid out and home. Apply, with particulars of past experience, to 138/46, Office of this Paper.

CHINA.—A qualified Assistant (24 to 28) required, with experience in Manufacture of P.B. Preparations and some Analytical knowledge; 4 years' agreement; passage paid out and home; good salary and excellent prospects to a suitable man; preference given to an English-speaking German. Apply, with full particulars, to 86/55, Office of this Paper.

FEDERATED MALAY STATES.—Thoroughly qualified Chemist required; good Dispenser; conversant with and capable of managing an Ice and Aerated Water Plant; three years' agreement; passage paid out; salary £240, and rising to £280 (or the equivalent in Straits dollars), with commission on net profits; must be of good address and have excellent references. Address, Tulloch & Co., London House, Crutched Friars, E.C.

ROME, Italy.—Messrs. H. Roberts & Co. require at once the services of a qualified Junior as Dispenser; knowledge of languages unnecessary. Write, giving full particulars, 417 Corso Umberto, Rome.

SHANGHAI.—Qualified Chemist wanted, Minor preferred; second-class passage paid via Siberia and return passage after four years; salary £22, £24, £26, and £28 per month respectively; must be good Salesman. For full particulars apply to "S. F. W.," Evans Sons Lescher & Webb, Ltd., 60 Bartholomew Close, E.C.

SHANGHAI.—Qualified Assistant, about 23, required for old-established English Chemists; four years' agreement; passage paid out and home; terms (approximately) £180 first year, with annual advance of £24; furnished room and medical attendance provided. Apply, with full particulars, to 86/550, Office of this Paper.

WHOLESALE.—Wet and Dry Assistant required for South Africa; unmarried; not over 35 years of age; passage paid out; three years' agreement. Apply, by letter only, to "L.," 14 Lafone Street, London, S.E.

SITUATIONS WANTED.

1s. for 12 words or less; 6d. for every 10 words or less beyond, prepaid.

The **Advertiser** may, if preferred, have [illegible] addressed to this Office, and forwarded on payment [illegible] additional charge of **6d.**

[HOME.] RETAIL.

Price lists, trade circulars, samples, and printed m[illegible] in no case be forwarded.

ASSISTANT (24) seeks engagement; seven years [illegible] good-class Retail, Dispensing, Photography, [illegible] preferred; time for study desired; disengaged Mar[illegible] 9 Ingleton Villas, Greenway, Uxbridge.

ASSISTANT; 32; single; all good experience 35 [illegible] Nicholson, 3 Vale Road, Portslade, Brighton.

ASSISTANT; thoroughly competent and reliable [illegible] working-class trade; good Salesman and Disp[illegible] outdoors; references sound. "Energy," 604 W[illegible] Charlton.

ASSISTANT (24); disengaged March 9; six years [illegible] Dispensing, Photographic, and Counter. Please [illegible] and salary, Watchorn, 103 Grosvenor Road, Rugby.

BRANCH Manager; Pharmacy and Dispensing [illegible] Optics; shortly; unregistered. 262/3, Office of [illegible]

CAN I assist you in your City or West-End P[illegible] Dispensing experience, etc.; unqualified; 27. [illegible] of this Paper.

CHEMIST'S Assistant, 25, desires situation as Jun[illegible] or Improver in Dispensing business; accustomed [illegible] Dispensing; wages required £40 a year indoors, or [illegible] outdoors. 257/2, Office of this Paper.

COVENTRY or district.—Unqualified; accurat[illegible] Counter, Window-dressing; permanency, young [illegible] 6 years' undeniable reference. C. Sinclair, 35 L[illegible] Brighton.

DISENGAGED end of March; unqualified Assistant [illegible] Counterman and Window-dresser; Dispensing, N.H.I. [illegible] years' experience. F. R. Burton, 121 Grimsby Road, Gr[illegible]

DISENGAGED; qualified; Manager, Assistant, Locum [illegible] references; experienced. 4 Citadel Terrace, Plymou[illegible]

DISENGAGED; experienced first-class Dispensing [illegible] surance Dispenser (average 30 an hour); quick a[illegible] Counterman. Gibson, 115 Scott-Ellis Gardens, St. John's W[illegible]

DISPENSER, qualified; experienced; disengaged [illegible] Counter. 50 High Street, Windsor.

DISPENSER; 20; Student, well educated in Pharma[illegible] Dispensing, desires to gain experience; small salary W[illegible] ham or district preferred, but not essential; Welsh-speak[illegible] 258/33, Office of this Paper.

DISPENSER, lady, Hall certificate, requires post M[illegible] or neighbourhood; Medical or Chemist. Send part[illegible] "P. S. N.," Hough, Hoseason & Co., Bridge Street, Man[illegible]

DISPENSER; 21; good experience in N.H.I.; L[illegible] ferred. 261/37, Office of this Paper.

DR. CAMBIE, 323 Commercial Road, Portsmouth, r[illegible] his Locum-Dispenser, Mr. Futcher, 83 Bath Road. [illegible] engaged him twice, gave every satisfaction.

EASTERN Counties, Midlands.—Thoroughly competent and recommended Assistant, accustomed to first-class bus[illegible] 27; 6 ft.; permanent or season engagement; not disengag[illegible] 258/26, Office of this Paper.

ELDERLY; qualified; long experience, locum and perma[illegible] in or near Liverpool; highest references. "Medicus," [illegible] Cable Street, Lancaster.

RLY qualified Chemist, good-class experience, as Man-r; outdoors; active, tall, single; Southern Counties pre-261/35, Office of this Paper.

ING work, North London; smart Counterman; tall, experi-ed: disengaged after 6 o'clock. "Tactful" (257/4), f this Paper.

INGS, Mondays, Wednesdays, Saturdays; lady Dispenser; lified. "B.," 7 Carleton Road, Holloway.

RIENCED, 29, unqualified, requires post as Senior istant or Manager; preferably, but not essential, with to Partnership or succession; married; capital available in right business. Replies, with full particulars, treated test confidence by "Reliable" (258/11), Office of this

R; tall; 21; good experience; time for study and near ols preferred. Morgan, 91 Llewellyn Street, Pentre,

Junior (20); Dispensing, Counter, Photography; 5 years' rience; near classes preferred. 254/23, Office of this

Dispenser-Bookkeeper, experienced, Hall certificate, wants in or near London; Institution, Chemist, Doctor; good als. Byron, Lyndhurst, Dunton Green, Kent.

POOL.—Unqualified Assistant disengaged Tuesdays, Wed-ays, Thursdays; half-days or evenings. 259/38, Office of er.

or Part-time; unqualified; first-class experience; com-ent. "Associate," 50 Foxley Road, Brixton, S.W.

, qualified; disengaged; good experience and references. 29, Office of this Paper.

; qualified; 48; disengaged; first-class references and rience. Dewey, 3 Helena Avenue, Margate.

; qualified; 35; disengaged; reliable; highest references. 11, Office of this Paper.

: London or Suburbs; Manager, Locum, or Part-time, d N.H.I. 263/13, Office of this Paper.

ER, Locum; age 43; Major; experienced; disengaged; references; outdoors preferred. "A.," 95 East Ferry plar, E.

ER or Locum; West-end experience; disengaged. alified," 92 Fentiman Road, S.W.

ER; exceptional qualifications; energetic, dependable; nal Insurance work a speciality. "Radium" (259/23), is Paper.

ESTER District.—Qualified desires engagement; ex-t references. "Laxal" (253/35), Office of this Paper.

—Unqualified; 23; tall; varied experience, Dispensing, ws, Counter, Photo; good references. "Util." Office of this Paper.

RS; unqualified; middle-aged; experienced; temporary rmanent. De Saulles, 36 Chudleigh Road, Lewisham,

ME or light work with Doctor; qualified lady Dispenser; g, Secretarial, etc.; references; country preferred. ern Bank, Fleet, Hants.

ME; qualified; afternoons; Retail or Wholesale. "P.," arringdon Road, E.C.

ME; Monday, Tuesday, Wednesday, 9 a.m. to 6 p.m.; days, 9 a.m. until noon; highest references; City and "Rhei," 26 Oxford Road, Walthamstow.

IST requires situation as Manager or Supervisor; Dispensing and Store experience; Leeds or Bradford "Beta" (261/17), Office of this Paper.

RAPHIC Salesman; work throughout; manage or make sinces; moderate wages. "A.," c/o Campbell, 16 ad, Leyton.

ED Dispenser (woman), experienced, requires post, ing, care of Instruments, Bookkeeping, etc., part E., E., or N.E. districts. C. T. MacD., 73 Humber heath, S.E.

QUALIFIED Manager; 30; Scotch; West-End Stores; first-class experience and references; of temperate habits; permanency. "Chemist," 9 Hornsey Rise, London, N.

QUALIFIED Manager, married, no children, desires engage-ment; South Coast preferred; entire charge. "M.," 60 Abingdon Road, Oxford.

QUALIFIED; married; age 39; outdoors; City or West End; N.H.I.; easy hours; willing to accept responsible position; experienced; reliable. 258/24, Office of this Paper.

QUALIFIED; 31; Managership, with view to succession or Partnership; good-class and varied experience; can put £200 and energy in business. Please state full particulars in first letter, 258/21, Office of this Paper.

QUALIFIED; 30; Manage brisk business; up-to-date ideas; abstainer; reliable; N.H.I. and good all-round experience. "Alpha" (263/20), Office of this Paper.

QUALIFIED; provincial Store and West-end experience. Hunter, 10 Pope's Road, Brixton.

QUALIFIED Assistant, 30, London experience, requires post in good-class Dispensing business, London, provinces, or seaside. "D." (258/14), Office of this Paper.

QUALIFIED; Manager; disengaged; experienced; Extractor. Davies, 14 Mansel Street, Swansea.

QUALIFIED; Manager; married; exceptional experience in all branches; first-class references; disengaged shortly; town or country. Joynson, 144 Gleneagle Road, Streatham, S.W.

QUALIFIED Assistant requires position; Margate district; moderate salary. "Rosario," Julian Road, Folkestone.

QUALIFIED; 35; tall, married; Counter, Dispensing (N.H.I. or otherwise); disengaged; London Suburbs preferred. Stewart, 16a Highgate Road, N.W.

QUALIFIED; Managership (good permanent); middle-aged; married; furniture; first-class experience; excellent refer-ences. 260/26, Office of this Paper.

QUALIFIED, Minor; elderly, tall, active; good personality; exceptional experience, including N.H.I. Dispensing; perman-ency desired; married; salary moderate. 260/29, Office of this Paper.

QUALIFIED, as Manager, Locum, or Senior; exceptional ex-perience, both town and country; Prescriber; good Counter-man; N.I. Dispensing; outdoors; disengaged. "M.P.S." (259/31), Office of this Paper.

QUALIFIED Manager; quick Dispenser; good Salesman; Optics, Photography, Ad. Writer. "Ready" (260/15), Office of this Paper.

QUALIFIED; 25; 11 years' experience, high-class Retail and Dispensing; abstainer; excellent testimonials; state salary and hours; outdoors. Symms, Cotham Brow Pharmacy, Bristol.

QUALIFIED; disengaged. State salary and full particulars, Barker, 1 Robinson's Place, Woodbrook, Oldham.

QUALIFIED (40) seeks light situation in or near Liverpool; reasonable wages. 260/22, Office of this Paper.

REQUIRED, berth as Junior, age 22, in busy Cash Store where good all-round experience of same can be obtained; energetic, willing; S. or S.W. district. "Rhei" (262/26), Office of this Paper.

TO Portsmouth and District Chemists.—W. O. Smith, "Charl-fred," The Avenue, Fareham, has two afternoons and evenings to spare for relief work; interview given.

UNQUALIFIED; Manager or Assistant; moderate salary. "Assistant," 76 Buck's Road, Douglas, I.M.

UNQUALIFIED Assistant, 24, tall, good all-round experience, desires Part-time position, close to College; Midlands or Manchester preferred. 257/31, Office of this Paper.

UNQUALIFIED Lady Dispenser, good Assistant, Bookkeeper, Typist, educated, fluent French, knowledge of German, seeks situation in London. 259/1, Office of this Paper.

UNQUALIFIED; Assistant or Branch Manager; good references and Dispenser, Counter; married; disengaged. Williams, c/o G. Norris, Chemist, Brentford, Middlesex.

UNQUALIFIED; reliable; abstainer; all-round experience; Agricultural; North preferred. C. Henderson, Main Street, Keswick.

UNQUALIFIED Assistant; town or country; disengaged shortly; good Dispenser, N.H.I., Extractor; Midlands, Yorks, Lincs. 262/2, Office of this Paper.

UNQUALIFIED Manager or Locum; first-class references; good experience; 30; tall; sober, reliable; good Salesman and Window-dresser. "Energetic," 44 Parkhill Road, Belsize Park, N.W.

UNQUALIFIED Assistant at liberty Thursdays all day; competent; Counter, Dispensing, or Window-dressing; what offers? "Drag," 2 Iverson Road, Brondesbury, N.W.

UNQUALIFIED; Hall qualification; 47; single; abstainer; active, energetic; Extract Teeth; country preferred; distance no object; good experience; disengaged. "Statim," 5 Barnfield Road, Belvedere.

UNQUALIFIED Assistant; tactful, keen salesman, good Dispenser, Window-dresser; excellent references. Apply, 259/24, Office of this Paper.

UNQUALIFIED; 21; 5 years' good-class experience, Dispensing, Counter, and Photography; excellent references; permanent. 261/14, Office of this Paper.

UNQUALIFIED; competent Assistant; tall; 31; any capacity; disengaged. Haigh, 112 Lambeth Road, S.E.

UNQUALIFIED; thoroughly competent Senior; accustomed take charge; Store experience; long exceptional references; married; 33; country no objection. Locke, 62 Fernthorpe Road, Streatham.

WANTED later on, Season berth; South Coast preferred; finest West and City experience; expert Salesman and Window-dresser (big prizewinner exhibition); all branches Photography; 28; abstainer; experienced management and control of staff; highest references; unqualified. Kindly state hours and maximum salary first letter, "Versatility" (261/16), Office of this Paper.

WHOLESALE.

Price lists, trade circulars, samples, and printed matter can in no case be forwarded.

COMMERCIAL, having covered the whole of the Eastern Counties, calling upon Chemists, and had 14 years' good Pharmaceutical training, requires post as Representative with reliable house offering salary, expenses, and commission. 253/38, Office of this Paper.

ENERGETIC Irish Pharmaceutical Chemist, 5 years' American Drug experience, now in London, wishes to Represent English Drug or Sundry house in Ireland. 258/22, Office of this Paper.

J. WALLIS HITCHING, who represented Messrs. Lorimer & Co. for many years, desires engagement with good-class firm. Please write, 28 Netheravon Road, Chiswick.

MAJOR man, first-class London experience in General Manufacturing, Galenicals, Essences, Pills, Tablets, Sugar-coating and all Laboratory work, desires re-engagement. "F. C.," 36 King William Street, Greenwich.

MANUFACTURING Chemist, qualified, desires re-engagement; long experience in good Laboratories in General Manufacturing, Standardising, Galenicals, Essences, Tablets, Sugar-coating, and in all Laboratory work; good Analyst; high-class references; home or abroad. 260/23, Office of this Paper.

TRAVELLER, experienced, seeks re-engagement, calling on Chemists, etc., London and suburbs; salary and commission; aged 40; 25 years in late firm. "G. T.," 61 Benthal Road, Stoke Newington.

UNQUALIFIED Assistant (20), disengaged, requires post with a Wholesale house. G. H. Adams, 77 Ewart Road, Forest Hill, S.E.

YOUNG Man seeks position; neat Packer, Wrapper, and Labeller, Stockkeeper; excellent references; sober and energetic; town or country; suit Chemists who pack own proprietaries. "Celma" (263/10), Office of this Paper.

MISCELLANEOUS.

MCADAM & TUCKNISS, Sharedealers, Bank Chambers, Blackheath, S.E. Established 1898. Telephone 81 Lee Green. Shares for sale (free of commission, subject [illegible]).—200 Ash "B" Preference, 23s. 4½d.; 80 Claudius Ash New Ordinary 31s. 6d.; 100 G. B. Kent Preference, 17s. 1½d.; 250 Maxwell Ordinary, 3s. 5½d.; 300 Watford Preference, 4s. 4½d.; 2[illegible] Drug, 25s., c.d. when declared; 200 Alby Carbide, 36s. 3d. Wanted (subject).—Camwal Preference and Debenture Debentures.
List of Shares for *Sale* and *Wanted* sent free on application. Every effort made to effect business for Buyers and Sellers in all Stocks and Shares. Bankers, London County and Westminster.

SECOND-HAND CHEMISTS' FITTINGS.—We have an exceptionally fine selection of these in all sizes; prices are right and goods are in first-class condition; we shall be pleased to supply particulars and prices. Call or write, RUDDUCK & CO., 2[illegible] Street, E.C.

CHEMISTS' Fittings, Secondhand.—Enough to fit up a [illegible] shops, comprising Ranges of Shelving, Drawers, Lecture Counters, Piano-fronted Wallcases, Dispensing-screens, [illegible] cases, Shop Rounds, etc., at give-away prices. D. Matthews & Son, The Chemists' Fitters, 14 and 16 Manchester Street, Liverpool.

CHEMISTS' Fittings Silent Salesman Showcases, Drug [illegible] Dispensing-screens, Wall-cases, Perfume-cases, Decks, Glass front Counters, Counter Drawers, Shop-soiled, Second-hand, at [illegible] beaten prices; before you decide get my estimate, you can do better; 30 years fitting Pharmacies. George Cook, the Chemists' working Shopfitter. New address: Catherine Street, City Road, E.C. (few doors from Old Street).

GOLDEN Opportunity.—The complete set of handsome Mahogany Fittings for smart Pharmacy; good as new; to be cleared at half their original cost; space wanted. Particulars H. Mills, the Chemists' Practical Shopfitter, Shop Front Builder, Facia and Tablet Works, 163-5 Old Street, London, E.C.

BEST cash price for all old Cameras, any make, also all Photo goods, no matter how damaged; any kind you may have send them along; cash will be sent same day; no waiting; we buy all and return nothing. S. E. Hackett, 23 July Road, Liverpool.

£40.—Complete set of Pharmacy Fittings, secondhand comprising 10-ft. Mahogany Drug Fixture, 8-ft. Mahogany and Plate-glass Serving Counter, Nest of Counter Drawers, Dispensing Screen and Counter, Mahogany Wall-Showcase, Mahogany and Plate-glass Perfumery Showcase and Deck; all in excellent condition. PHILIP JOSEPHS & SONS, LTD., 93 [illegible] Street, London, E.C.

THE MOST POPULAR DANCE
of the Season for Chemists is the
JUNIOR PHARMACY BALL.

THE BEST BAND, BEST PROGRAMME, and BEST FLOOR will be found at the PORTMAN ROOMS on MARCH [illegible] 1914.
Tickets (7s. 6d. each, including supper and light refreshments during the evening) may be had from the Hon. Secretary, B. R. Wilkinson 23 Cromwell Place, South Kensington, or from any of the Stewards.

"GUIDE TO PRELIMINARY EXAMINATIONS IN PHARMACY, ETC.—Many of our readers will be considering from time to time what to do with their sons, and in this connection they desire to ascertain the degree of difficulty of examinations for pharmacy, medicine, dentistry, etc. This little volume contains full information as to the regulations, together with sample papers and many useful hints on all the subjects given at the Preliminary examinations for these professions, and it is a book necessary to the intending competitor and useful to the parent seeking information.—*Schoolmistress.*

"THE CHEMIST-OPTICIAN" is the first book which chemists should read who want to know how to make money off spectacles and eyeglasses. Published at 4s. (by post 4s. 4d.), can be obtained from the *C. & D.* Offices in London or Melbourne, and from the wholesale and sundries houses at the published price.

HANGE COLUMN

per word with name and address. One penny per ister the address and attach a number. ent inserted for less than 6d.

OR DISPOSAL.

KS AND PERIODICALS.

G A VOLUME.—"L'Art de Dresser les Formules e," 1749; Boulton's "Treatises on Gout, etc.," nfiturier Royal," 1776; Corry's "Detector of 1802; Culpeper's "Pharmacopœia Londinensis," Clerc's "Histoire de la Médecine," 1723; "History of Health," 1760; "Rivierius " 1706; Salmon's "Family Dictionary," 1705, missing; "Schola Salernitana," 1783; Sprengel's e la Médecine," 1815, 8 vols.; Tissot's "Family 1801. Ross, 58 North Hill, Highgate, N.

RGS AND CHEMICALS.

2 lb. Canada balsam, 4 lb. oil citronella, 8 lb. e; all or part. Cole & Son, Chemists, Weymouth.

MISCELLANEOUS.

apparatus, good condition, in London. Offers to Kirton-Lindsey.

fter and mixer, perfect condition; revolving pan ing; goods as new. 261/7, Office of this Paper.

plete set of second-hand analytical chemicals and ull list. Apply, Rose, Kings Trust School, Ongar,

chart human body, coloured diagrams, showing gans and relative positions; 25s. Vaughan, 12 & ridge, Leeds.

—Hudson's No. 1 soap powder, 20 cwt., and wder, 5 cwt.; what offers for whole or part? , 36 Hornsey Rise, N.

WANTED.

0-grain pills. 255/32, Office of this Paper.

tors. Bryan & Spedding, Ltd., 48 Deansgate,

Grammar of Pharmacy," also "Art of Dispens- t editions. 258/5, Office of this Paper.

ND "Materia Medica"; must be Whitla's. Apply, e, to Bullen, Cwmaman, Aberdare, Glamorganshire.

; Minor, Major, Chemists' books; send prepaid for cash offers per return. Gower, Bookseller, 41 d, Clapham, London, S.W.

DRESSES WANTED.

oblige with present address of George Nesbit ., late of Ashton-under-Lyne? John Parkes & k.

ram:

Chemists, United Kingdom, can double your windows. Have done for self and tcard brings details. Bromley, Chemist, Middlesex.

INSTANT SUCCESS!

writes: "Am selling more Corn Cure than ever very other customer wants it." Another: "Am isfied with the result! The best window attraction n." All above have booked for series. See last Send for particulars of this and my Business ce. Pharmacists only supplied. Centres can be ny Speciality, *e.g.* Corn Cure, Toilet, Neuralgia, Powder, Holiday Goods, etc., 2/6 each.

ALLISON, Pharmacist & Business Specialist, RETFORD.

WILLS PROVEN.

Mr. Francis Underwood Stamp, Ph.C., 20 High Street, Hampstead, London, N.W., who died on November 16, left estate of the gross value of 1,803*l.*, with net personalty 1,562*l.* Probate of his will has been granted to his widow, Mrs. Winifred Maud Stamp, 29 High Street, Hampstead, N.W., the sole executrix.

Mr. Peter Harrower, Leabank, Cardross, Dumbarton, 134 Bath Street, Glasgow, and 48 Lime Street, London, E.C., East India merchant, mainly identified with the drug and chemical trade, who died on October 23, left, in addition to real estate, personal estate of the total value of 80,362*l.*, of which the personal estate in the United Kingdom amounts to 58,059*l.* Mr. Harrower was registered as a chemist and druggist, having been in business before August 31, 1868.

Mr. William Bennett Fordham, Holly Mount, Hendon, London, N.W., who died on November 12, left estate of the gross value of 136,263*l.* 0*s.* 1*d.*, of which the net personalty has been sworn at 112,221*l.* 18*s.* 4*d.* The testator left to his son William Harold 2,000*l.*, 500 shares in the United Cigarette Machine Co., Ltd., shares in his son's name in James Oakey & Son, Ltd., and his shares not otherwise bequeathed in W. B. Fordham & Sons, Ltd., Gordon & Dilworth, Ltd., and the Patent Pulp Manufacturing Co., Ltd.; and to Mr. Alfred John Monshall 500 original fully-paid shares in W. B. Fordham & Sons, Ltd., 856 1*l.* ordinary shares in Gordon & Dilworth, Ltd., and 100*l.* He also left 5*l.* to each traveller, clerk, warehouseman, and carman in the employ of W. B. Fordham & Sons, Ltd., of seven years' service; and 100 1*l.* fully-paid original shares in W. B. Fordham & Sons, Ltd., to Robt. Callis, of Hendon; and, subject to numerous other bequests, the residue of his property to his wife.

COMING EVENTS.

This section of the "C. & D." is reserved for advance notices of meetings or other events. These should be sent to the Editor by Wednesday of the week before the meetings, etc., occur.

Monday, March 2.

Society of Chemical Industry, London Section, Burlington House, Piccadilly, W., at 8 P.M. Messrs. A. Baker and J. Jennison on "The Bleaching of Chemical Pulp and Suggestions for a Standard Method in Test Cases"; Mr. W. A. Hargreaves on "Blasting Gelatin, Some Notes and Theories"; Dr. W. R. Hodgkinson on "An Application of Calcium Carbide to the Formation of Alloys."

Wednesday, March 4.

Edinburgh Chemists', Assistants', and Apprentices' Association. Annual supper.

Nottingham Pharmaceutical Association, Victoria Station Hotel, at 8 P.M. Social evening.

Thursday, March 5.

Royal Institution of Great Britain, Albemarle Street, Piccadilly, London, W., at 3 P.M. Professor C. F. Jenkin on "Heat and Cold" (Lecture 1).

Chemical Society, Burlington House, Piccadilly, London, W., at 8.30 P.M. Among the papers to be communicated are the following: "A Redetermination of the Atomic Weight of Vanadium," by Messrs. H. V. A. Briscoe and H. F. V. Little; "The Constituents of the Leaves and Stems of *Daviesia latifolia*," by Dr. F. B. Power and Mr. A. H. Salway; "The Composition of some Mediæval Wax Seals," by Dr. J. J. Dobbie and Mr. J. J. Fox; and "The Interaction Between Nitric Acid and Brucine in the Presence of Metallic Nitrates," by Messrs. E. H. Rennie and A. E. Dawkins.

Chemists' Assistants' Association, Bonnington Hotel, Southampton Row, London, W.C., at 8.30 P.M. Social evening.

North London Pharmacists' Association, St. Padarn's Lecture Hall, Gloucester Road, Seven Sisters Road, Holloway, at 3.30 P.M. Mr. E. H. Brittain on "Perfumes."

Great Yarmouth Pharmaceutical Association, 156 King Street, at 8.30 P.M. Monthly meeting.

South-East London Pharmacists' Association, Till's Restaurant, High Street, Lewisham, S.E., at 8 P.M. Discussion on "The Local Plan of Co-operation in Pharmacy."

Liverpool Chemists' Association.—A dinner will be held at the Exchange Station Hotel on March 18, at which Mr. Edmund White, President of the Pharmaceutical Society, will be the guest of the evening. The Lord Mayor of Liverpool has also promised to attend. Tickets (5*s.* 6*d.* each) can be obtained from Mr. John H. Robinson, Hon. Secretary, Exchange Station Buildings, or from the President (Mr. H. Humphreys Jones), Mr. W. Wellings, and Mr. Harold Lomax.

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Thursday Evening, Feb. 19, "C. & D." Supplement in the Press.

	Replies received to Office Number
Friday, Feb. 20, 5.15 p.m.	40
Saturday, Feb. 21, First & Second Post	342
Up to 1 p.m. (closing time)	15
Monday, Feb. 23, First & Second Post	216
Up to 5.15 p.m.	42
Tuesday, Feb. 24, First & Second Post	39
Up to 5.15 p.m.	6
Wednesday, Feb. 25, First Post	10
Up to 5.15 p.m.	2
Thursday, Feb. 26, First Post	9
Total	721

These numbers, be it noted, refer solely to advertisements printed with a nom-de-plume or Box Office number. Hundreds of replies besides these go direct to advertisers who give their own names and addresses.

These figures, moreover, are the most conclusive proof possible of the fact that this Supplement gives

The Advertising it Pays to Pay for.

"The Chemist & Druggist," 42 Cannon Street, London, E.C.

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